AKAI

GX-630D/DSS

MODEL

SERVICE MANUAL

SERVICE MANUAL
PARTS LIST

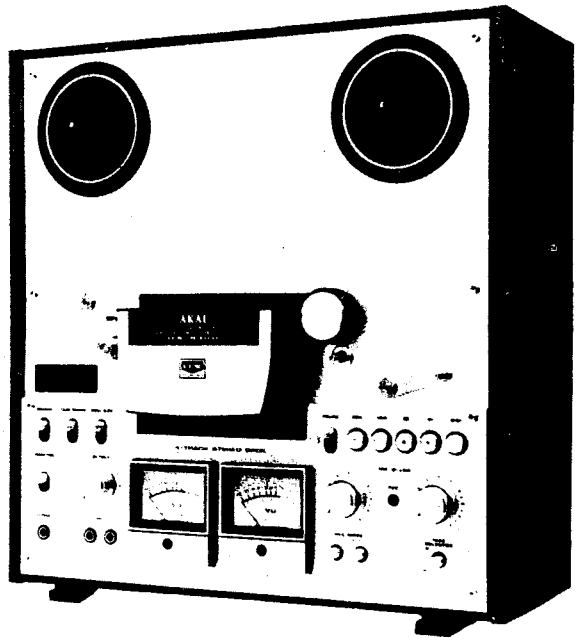
PRIDE IN QUALITY

AKAI STEREO TAPE DECK

MODEL GX-630D

ALSO APPLICABLE TO MODEL GX-630DB

GX-630D



AKAI STEREO TAPE DECK

MODEL GX-630D

ALSO APPLICABLE TO MODEL GX-630DB STEREO TAPE DECK

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SECTION 1

SERVICE MANUAL

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For basic adjustments, measuring methods, and operating principles, refer to GENERAL OPERATING PRINCIPLES AND ADJUSTMENTS.

I SPECIFICATIONS

An asterisk next to a figure indicates the minimum guaranteed performance.

TRACK SYSTEM		4 track 2 channel stereo/monaural system
TEPE SPEED		7-1/2 and 3-3/4 ips ±0.7% *7-1/2 and 3-3/4 ips +1.0/−1.5%
WOW AND FLUTTER		Less than 0.06% WRMS at 7-1/2 ips Less than 0.09% WRMS at 3-3/4 ips *Less than 0.10% RMS at 7-1/2 ips *Less than 0.15% RMS at 3-3/4 ips
TOTAL WOW AND FLUTTER		*Less than 0.12% RMS at 7-1/2 ips *Less than 0.18% RMS at 3-3/4 ips
FREQUENCY RESPONSE		30 to 25,000 Hz ±3 dB at 7-1/2 ips 30 to 19,000 Hz ±3 dB at 3-3/4 ips (with AKAI LN-150-7 Tape) *30 to 22,000 Hz ±3 dB at 7-1/2 ips *30 to 18,000 Hz ±3 dB at 3-3/4 ips
HARMONIC DISTORTION		Less than 0.5%
TOTAL HARMONIC DISTORTION		*Less than 1.5%
SIGNAL TO NOISF RATIO		Better than 50 dB
TOTAL SIGNAL TO NOISE RATIO		*Better than 47 dB
OUTPUT	LINE	*0.775V (0 dBm ±1.0 dB)
	HEADPHONE	30 mV at 8 ohm At playback of a 700 Hz "0" VU pre-recorded test tape. (Output Volume at maximum)
INPUT	MIC	More than 0.25 mV/10 k ohm
	LINE	More than 70 mV/150 k ohm At "0" VU output. (Recording Volume at maximum)
DIN INPUT/OUTPUT		0.25 mV/0.5V
RECORDING/PLAYBACK LEVEL		*0.775V (0 dBm ±1.5 dB)
CROSS TALK		Better than 45 dB, stereo Better than 55 dB, monaural
ERASE RATIO		Better than 70 dB
RECORDING BIAS FREQUENCY		100 kHz ±5%
BIAS LEAK		Better than −30 dB (GX-630D) Better than −50 dB (GX-630DB)
HIGH FREQUENCY DEVIATION		Within 3 dB At playback of an 8,000 Hz 3-3/4 ips pre-recorded tape at 7-1/2 ips
RECORDING TIME		180 min stereo recording at 7-1/2 ips, using a 3,600 ft tape.
F.FWD AND RWD TIME		Approximately 2 min and 40 sec at 50 Hz, using a 3,600 ft tape.
MOTOR	MAIN MOTOR	2 speed AC servo control outer rotor motor Type: SCM2-24KJ 4 pole Revolutions: 615 rpm at 7-1/2 ips (19 cm/sec) 307.5 rpm at 3-3/4 ips (9.5 cm/sec)
	REEL MOTOR	6 pole eddy current outer-rotor motor Type: 24XO-TD Revolutions: 930 rpm at 50 Hz 1,120 rpm at 60 Hz
HEAD	ERASE HEAD	Type: E4-260 Gap: double gap Impedance: 210 ohm ±10% at 100 kHz D.C Resistance: 2 ohm
	RECORDING HEAD	Type: R4-200 Gap: 4 micron Impedance: 1,870 ohm at 100 kHz D.C Resistance: 8 ohm
	PLAYBACK HEAD	Type: P4-202 Gap: 1.7 ±0.5 micron Impedance: 1,400 ohm at 1 kHz D.C Resistance: 268 ohm

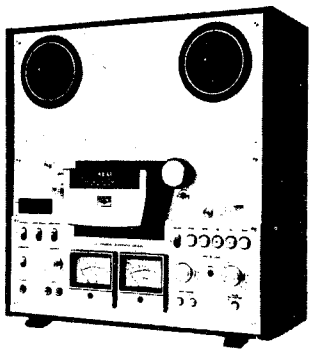
TRANSISTOR & FET	2SA564(Q)(R) . . . 1(5)	2SC1247A(B)(V) . . . 2(2)
	2SC458(C) . . . 0(12)	2SD361(D_1)(D_2) . . . 1(1)
	2SC458LG(C) . . . 16(32)	TIP47 . . . 1(1)
	2SC711(F)(G) . . . 2(2)	2SK30A(GR) . . . 0(4)
	2SC945L(Q)(P) . . . 22(22)	
DIODE	1N34A . . . 2(6)	10D2 . . . 4(4)
	1N4001 . . . 4(4)	WZ075 . . . 2(2)
	1N4004 . . . 6(6)	WZ085 . . . 0(4)
	1S1588 . . . 1(1)	WZ192 . . . 1(1)
	1S2473 . . . 21(21)	RD5A(M) . . . 1(1)
	1S2473VE . . . 16(28)	
POWER REQUIREMENT AND CONSUMPTION	100 to 240V AC 50/60 Hz, 90W (Universal Models)	
	220V AC 50 Hz, 100W (CEE Models)	
	120V AC 60 Hz, 90W (CSA Models)	
	100V AC 50/60 Hz, 70W (JPN Models)	
DIMENSIONS	465(H) x 440(W) x 240(D) mm (18.3" x 17.4" x 9.4")	
	Dimensions include all protruding parts.	
WEIGHT	GX-630D: 19 kg (41.8 lbs)	
	GX-630DB: 19.5 kg (42.9 lbs)	

NOTES: 1. **Specifications determined with SCOTCH #211 Tape unless otherwise noted.**
2. **Specifications subject to change without notice.**
3. **The numbers shown in parentheses in Items TRANSISTOR & FET and DIODE are applicable to Model GX-630DB.**

II DISMANTLING OF UNIT

In case of trouble, etc. necessitating disassembly, please disassemble in the order shown in photographs. Reassemble in reverse order.

1



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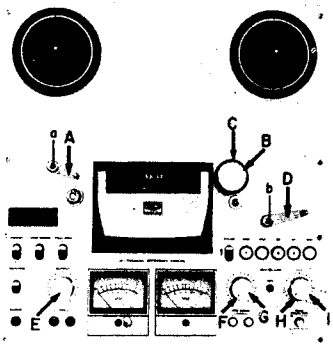
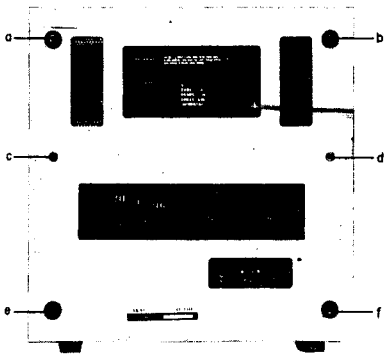


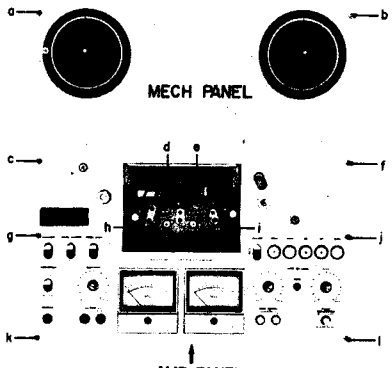
CONTROL KNOBS, ARMS AND PINCH ROLLER

2



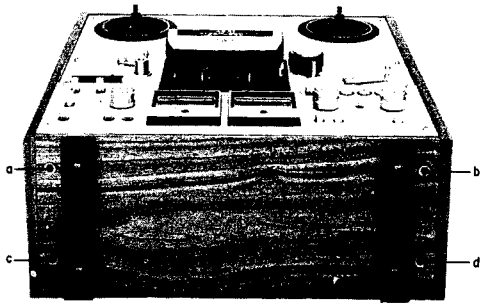
SCREWS

6



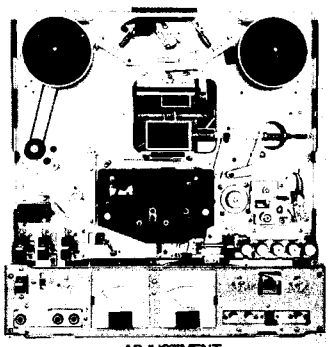
AMP PANEL

3



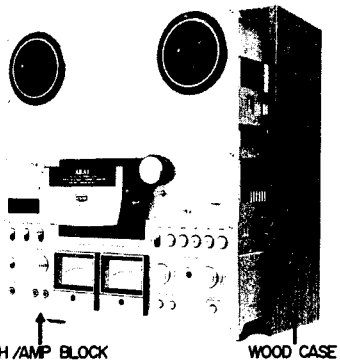
SCREWS

7



ADJUSTMENT

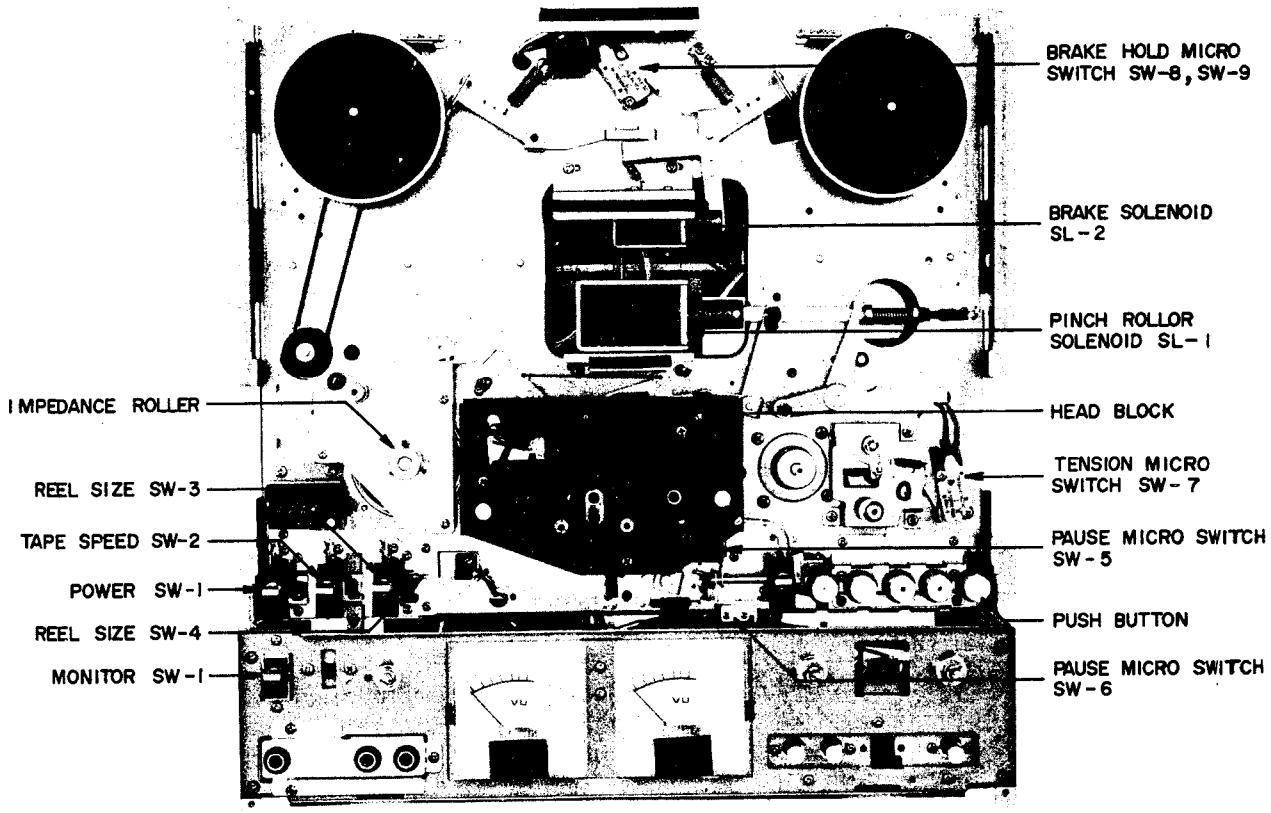
4

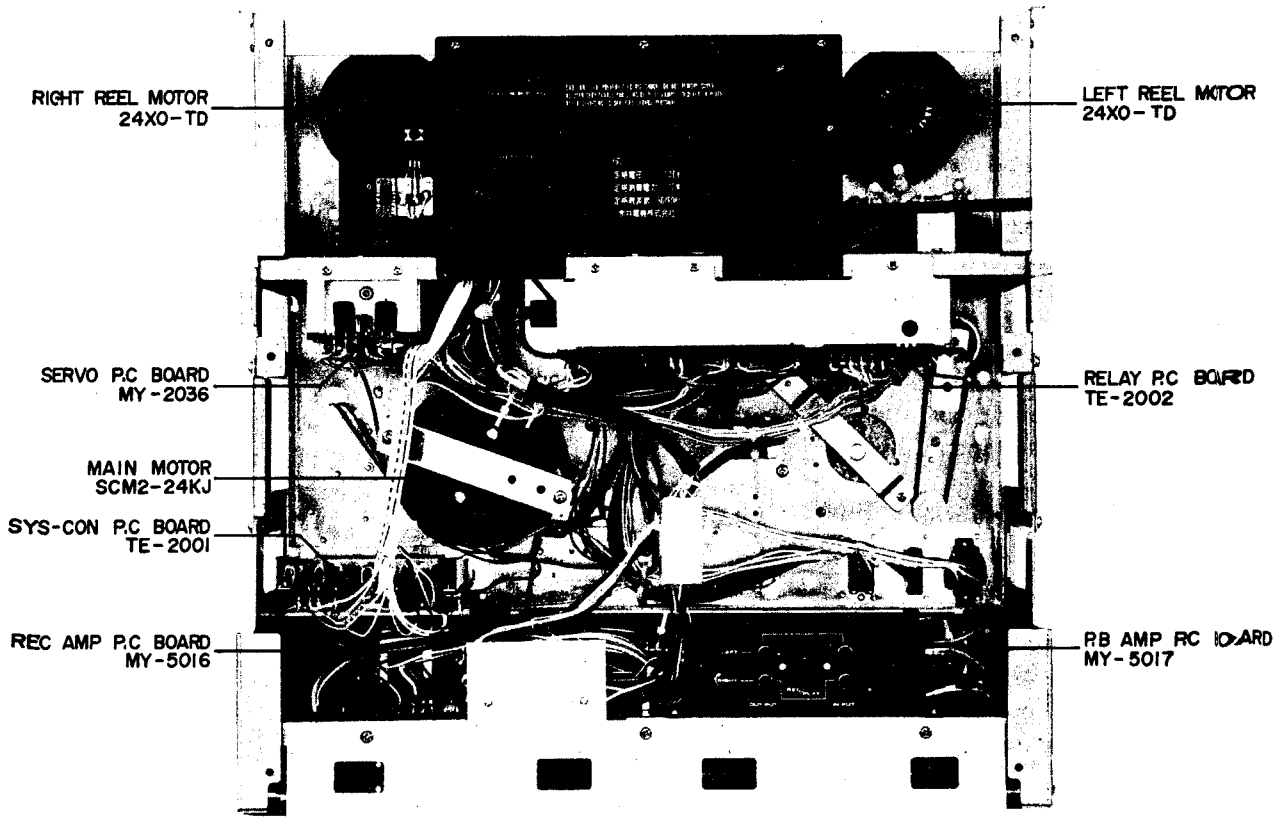


MECH /AMP BLOCK

WOOD CASE

III ARRANGEMENT OF PRINCIPAL PARTS




RIGHT REEL MOTOR 24XO-TD
LEFT REEL MOTOR 24XO-TD
SERVO P.C BOARD MY-2036
RELAY P.C BOARD TE-2002
MAIN MOTOR SCM2-24KJ
SYS-CON P.C BOARD TE-2001
REC AMP P.C BOARD MY-5016
P.B AMP P.C BOARD MY-5017

IV MECHANISM ADJUSTMENT

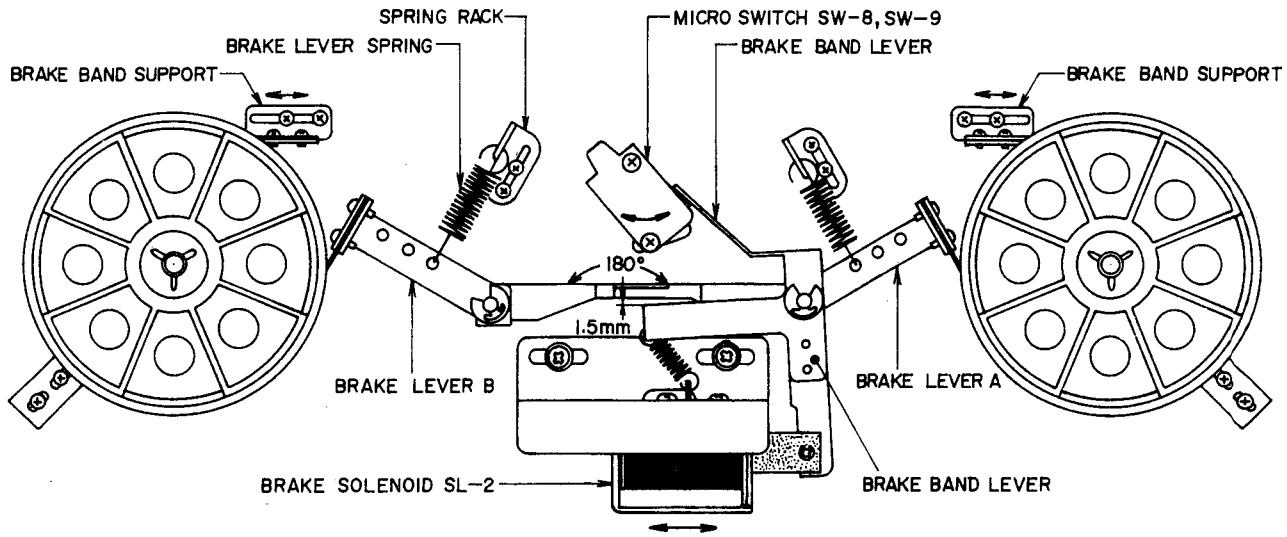


Fig. 1

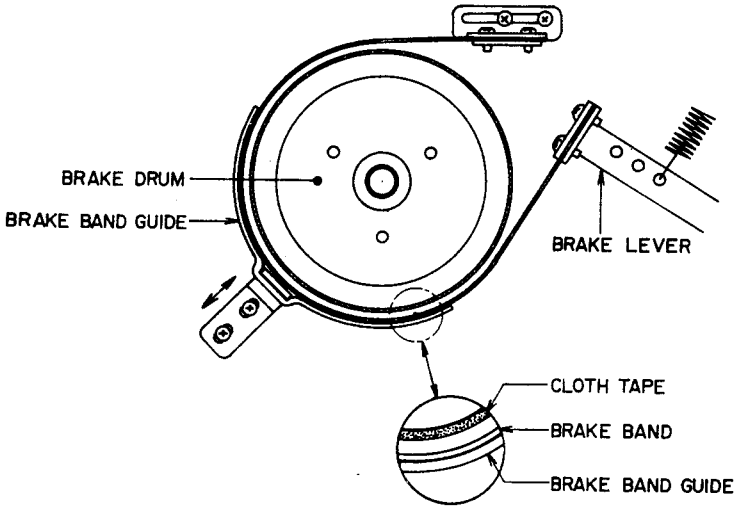


Fig. 2

1. POSITION ADJUSTMENT OF BRAKE SOLENOID SL-2 (Refer to Figs. 1, 2)

1) Adjust left/right Brake Band Support positions so that at stop mode, Brake Lever A and Brake Lever B display 180° angle relativity.
2) Under the conditions described in 1) above, adjust installation angle position of Microswitches SW-8 and SW-9 so that the clearance between the brake lever and brake band lever is 1.5 mm.
3) Adjust installation position of the Brake Solenoid so that at playback mode, the brake band separates from the brake drum.

2. BRAKE TENSION ADJUSTMENT (Refer to Figs. 1, 2)

1) Adjust installation position of the Spring Rack so that brake tension is 500g.
2) After brake tension adjustment, adjust installation position of the Brake Band Guide so that at all modes except stop mode, the brake band completely separates from the cloth tape on the brake drum.

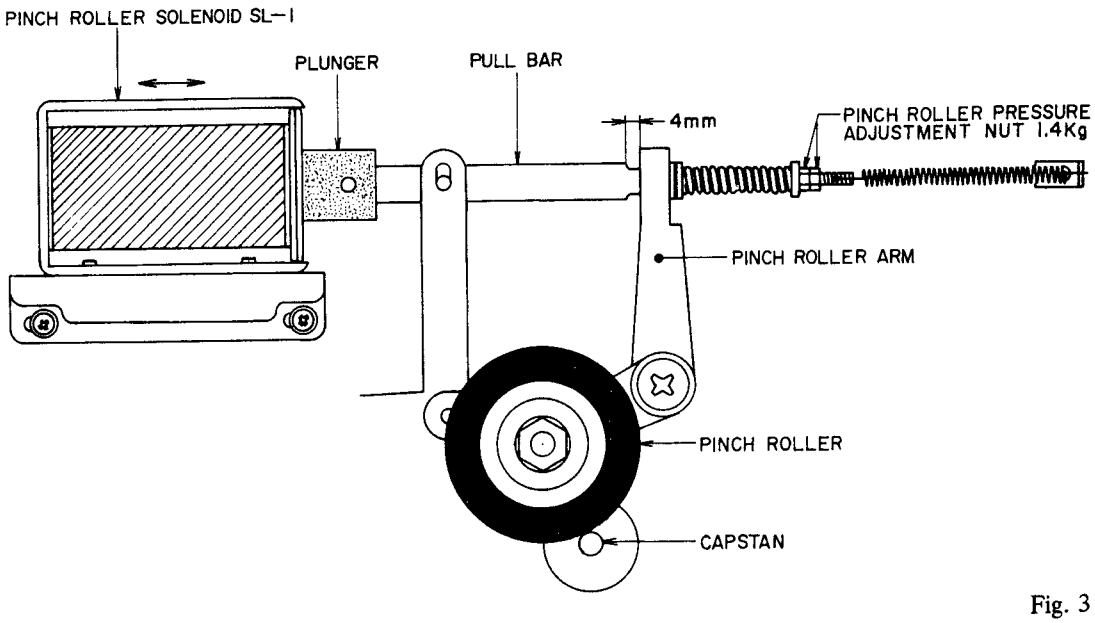


Fig. 3

3. POSITION ADJUSTMENT OF PINCH ROLLER SOLENOID SL-1 (Refer to Fig. 3)

1) Insert a 4 mm thickness gauge (A U type washer can be substituted) between the Pull Bar and Pinch Roller Arm.
2) Set the deck to playback mode, and fix Pinch Roller Solenoid at position at which pinch roller begins to rotate.

4. PINCH ROLLER PRESSURE ADJUSTMENT (Refer to Fig. 3)

Adjust Pinch Roller Pressure Adjustment Nut so that pinch roller pressure is 1.4 kg.

NOTE: To measure pinch roller pressure, pull the pinch roller away from capstan with a spring gauge and gently return. Spring Gauge indication, at the time the pinch roller contacts the capstan and the capstan begins to rotate, should be 1.4 kg.

5. CAPSTAN SHAFT LOOSE PLAY ADJUSTMENT (Refer to Fig. 4)

Adjust to obtain a clearance of 0.1 mm between the Capstan Shaft and Thrust Support Angle.

6. IMPEDANCE ROLLER LOOSE PLAY ADJUSTMENT (Refer to Fig. 5)

Adjust Screws A and B so that impedance roller loose play is 0.1 mm.

NOTE: Confirm that the screws are tight following this adjustment.

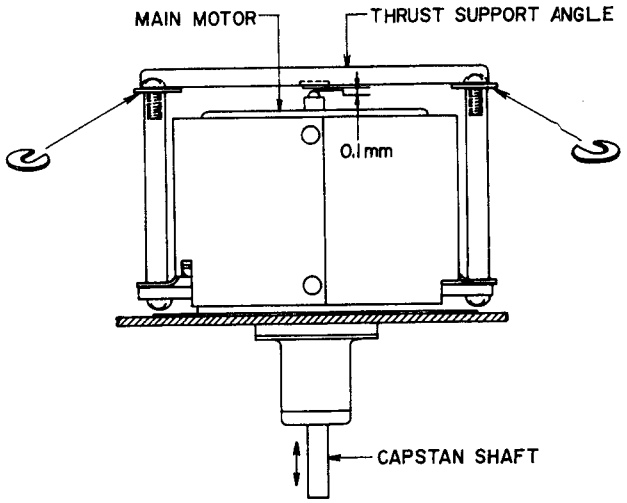


Fig. 4

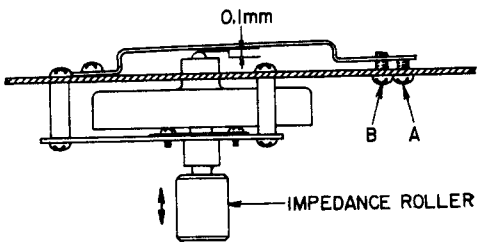


Fig. 5

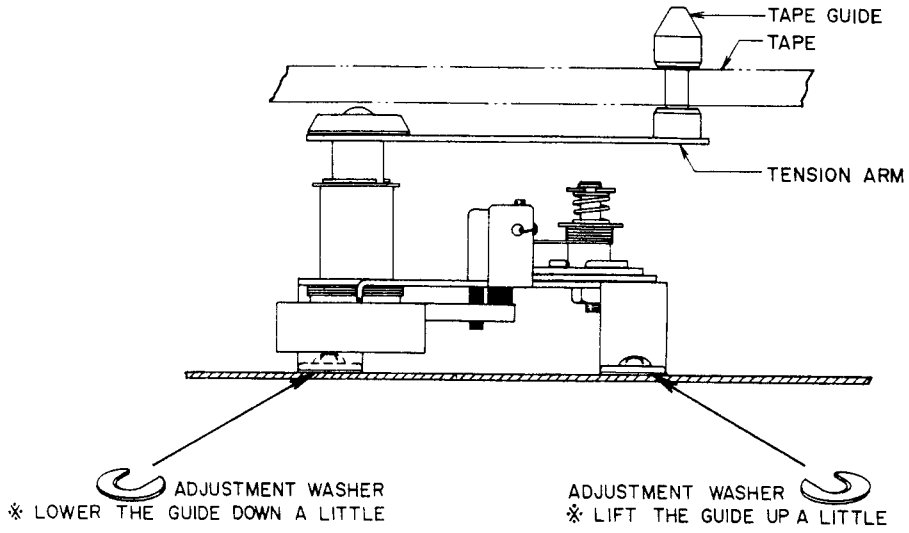


Fig. 6

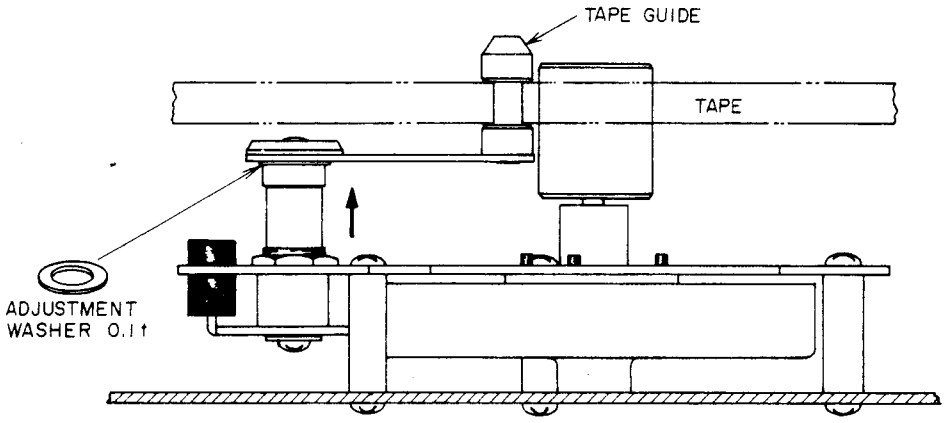


Fig. 7

7. TAPE GUIDE HEIGHT ADJUSTMENT (Refer to Figs. 6. 7)

Adjust tape guide height so that the tape does not curl between the tape guide and guides on head base.

NOTE: As left and right tape guide height adjustment methods are different, be sure to refer to Figs. 6. and 7.

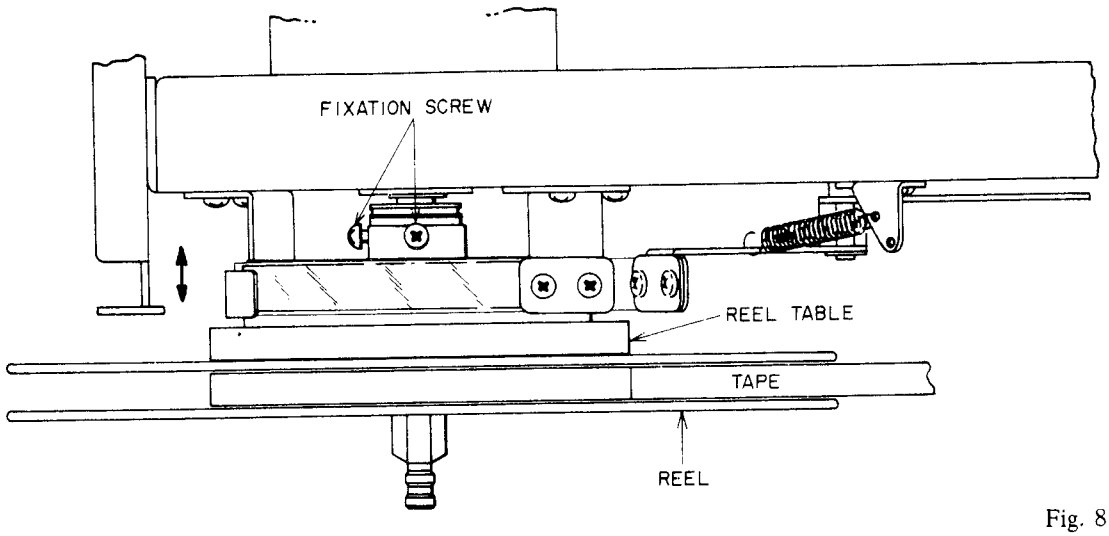


Fig. 8

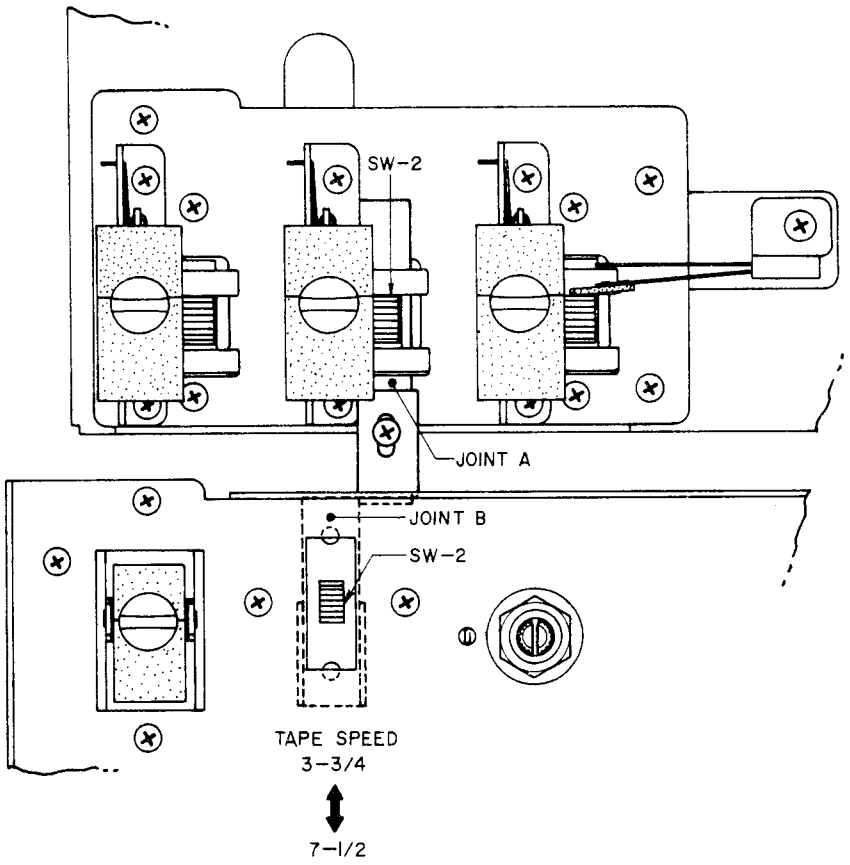


Fig. 9

8. REEL TABLE HEIGHT ADJUSTMENT (Refer to Fig. 8)

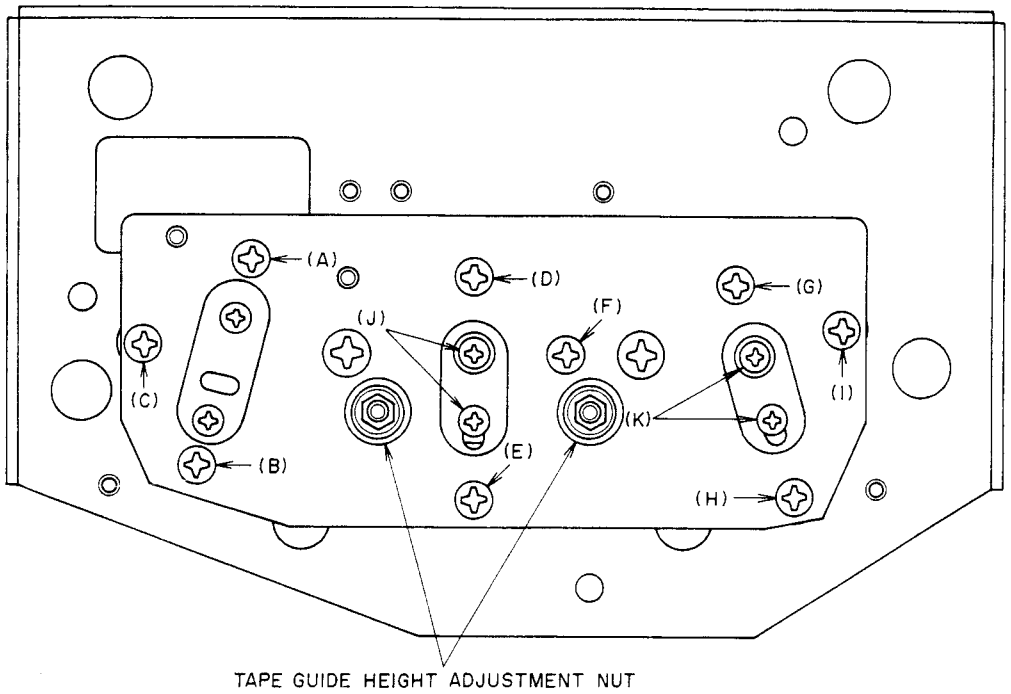
Load a tape and adjust reel table height so that at both F.FWD and RWD modes, the tape winds on the center of the reel hub.

NOTE: Tape should wind on center of reel hub regardless of type reel used.

9. INSTALLATION POSITION ADJUSTMENT OF JOINT B (Refer to Fig. 9)

Adjust installation position of Joint B so that when tape speed is changed, Slide Switch SW-2 and Equalizer Change Slide Switch SW-2 mounted on the amplifier front chassis display link-motion for proper switching.

V HEAD ADJUSTMENT



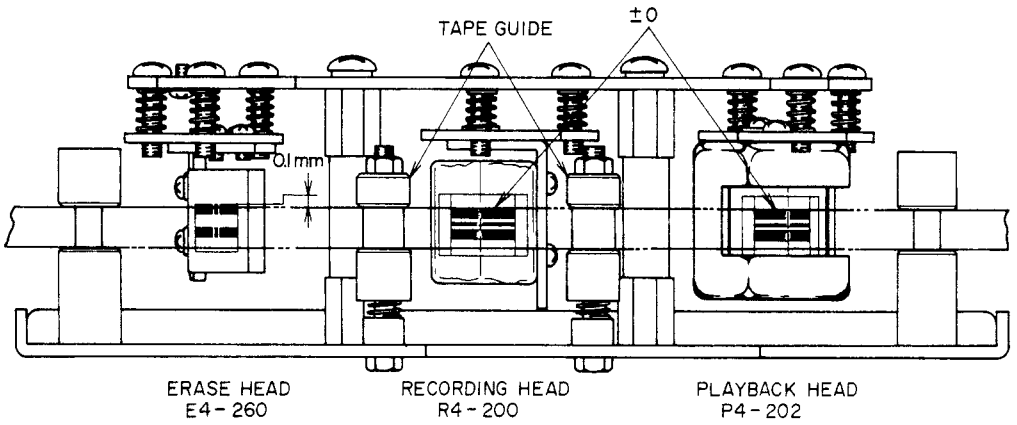


Fig. 10

NOTES: 1. As perfect head adjustments are vital to tape deck performance, be sure that these adjustments are carried out properly.
2. Be careful not to use a magnetized driver or other magnetized tools in the vicinity of the heads.
3. Use only new tape as level variation is likely to occur when using old tape.
4. Demagnetize heads with head demagnetizer before and after head adjustment.
5. Set tape speed to 7-1/2 ips except in steps 7 and 8.
6. Refer to Fig. 10.

Step	Adjustment Item	Test Tape Supply Signal	MODE	Adjustment Point	Remarks
1	Tape Guide height Adjustment	Optional	PLAY	Tape Guide Height Adjustment Nut	Adjust so that tape does not twist between tape guides on head base.
2	Erase Head Height Adjustment	Optional	PLAY	(A)(B)(C)	Upper edge of channel 1 head core is 0.1 mm higher than upper edge of tape.
3	Recording Head Height Adjustment	Optional	PLAY	(D)(E)(F)	Upper edges of channel 1 head core and tape are the same height.
4	Playback Head Height Adjustment	Optional	PLAY	(G)(H)(I)	Upper edges of channel 1 head core and tape are the same height.
5	Playback Head Azimuth Alignment Adjustment	8,000 Hz 3-3/4 ips Test Tape	PLAY	(I)	Maximum output, both channels.
6	Playback Head Gap Alignment Adjustment	8,000 Hz 3–3/4 ips Test Tape	PLAY	(K)	Adjust head gap surface so that there is no change in output level when tension is applied to the supply reel side.
7	Recording Head Azimuth Alignment Adjustment	SCOTCH #211 Tape 15,000 Hz –20 dBm	REC	(F)	Maximum output, both channels.
8	Recording Head Gap Alignment Adjustment	SCOTCH #211 Tape 15,000 Hz –20 dBm	REC	(J)	Adjust head gap surface so that there is no change in output level when tension is applied to the supply reel side.

Chart 1

VI AMPLIFIER SYSTEM ADJUSTMENT

1. D.C POWER SUPPLY VOLTAGE ADJUSTMENT (Refer to Fig. 11)

Fig. 11

2. TAPE SPEED ADJUSTMENT (Refer to Fig. 12)

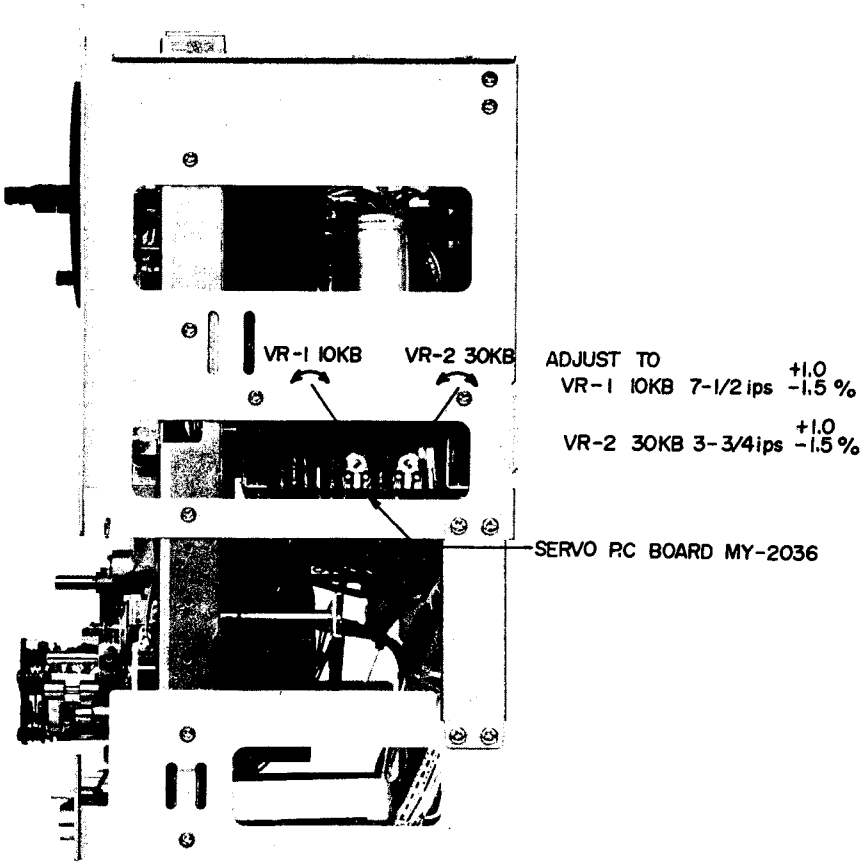


Fig. 12

3. RECORDING AND PLAYBACK AMPLIFIER ADJUSTMENT (Model GX-630D)
(Refer to Fig. 13)

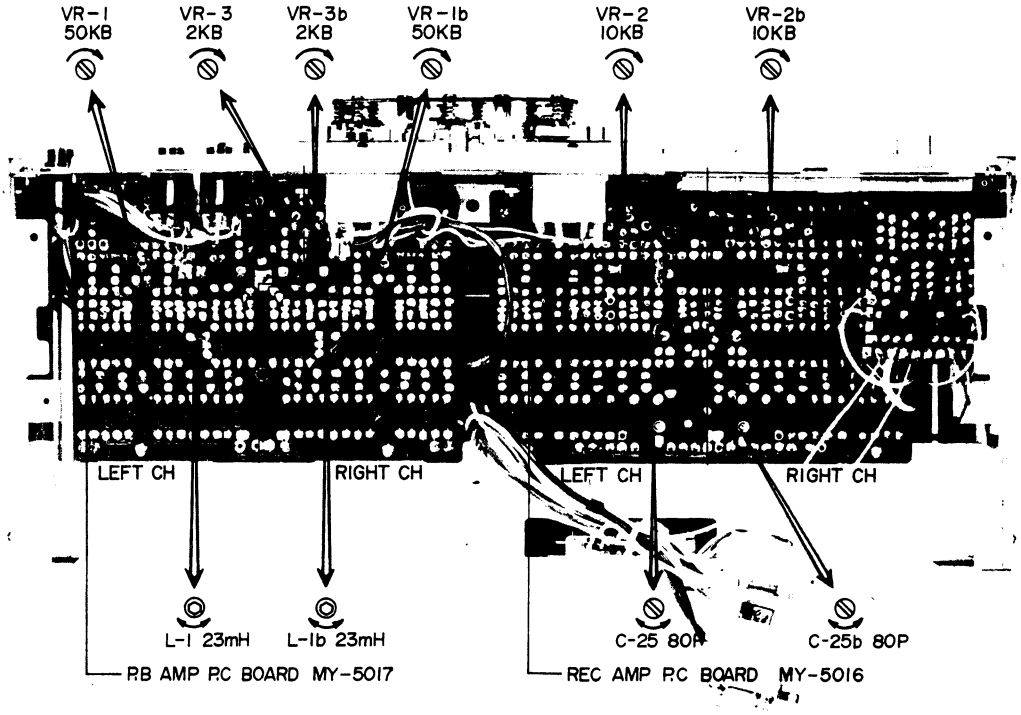


Fig. 13

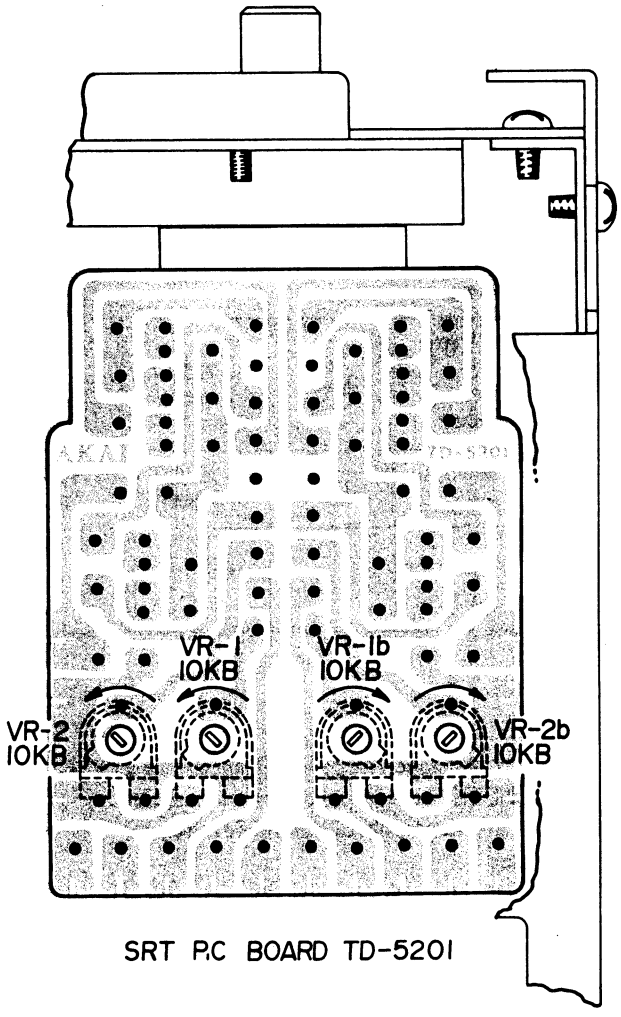


Fig. 14

Step	Adjustment Item	Test Tape Supply Signal	Mode	Adjustment Point	Result	Remarks
1	Playback Level Adjustment	700 Hz 7-1/2 ips 0 VU Test Tape	PLAY	VR-1 50 kB	0 ±1.5 dB (0.775V)	
2	VU Meter Sensitivity Adjustment	700 Hz 7-1/2 ips 0 VU Test Tape	PLAY	VR-3 2 kB	0 VU	
3	Recording Level Adjustment	SCOTCH #211 Tape 1,000 Hz 0 VU recording	REC	VR-2 10 kB	0 ±1.5 dB (0.775V)	
4	Frequency Response Adjustment	SCOTCH #211 Tape 1,000 Hz 10,000 Hz −20 VU recording	REC	C-25 80P	1,000 Hz to 10,000 Hz flat	Tape Speed 3-3/4 ips. Recheck recording level.
5	Bias Leak		REC	L-1 23 mH	Less than −30 VU	Less than −20 VU at monaural.

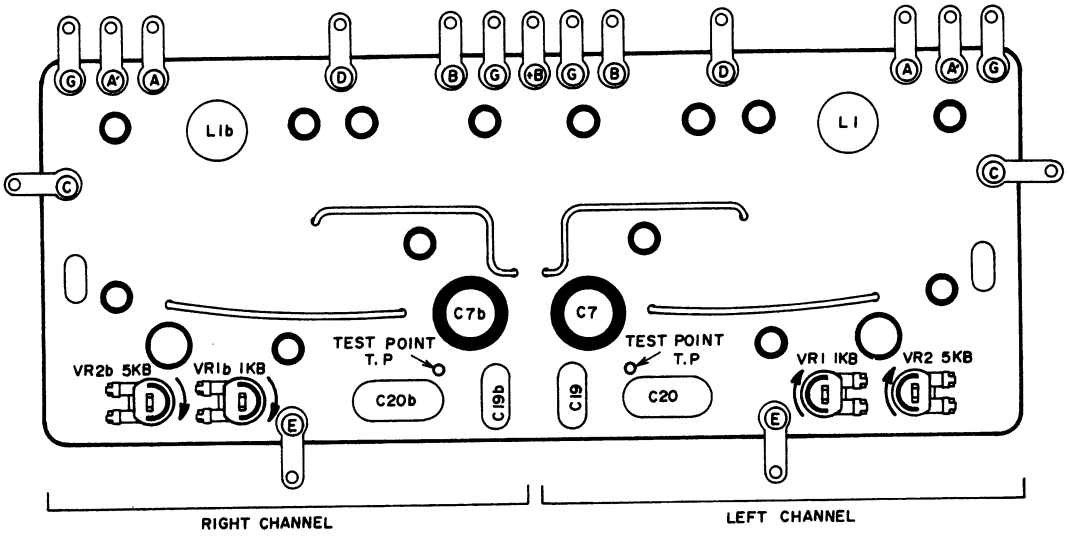
Chart 2

4. RECORDING AND PLAYBACK AMPLIFIER ADJUSTMENT (Model GX-630DB) (Refer to Figs. 13, 14)

Step	Adjustment Item	Test Tape Supply Signal	Mode	Adjustment Point	Result	Remarks
1	Playback Level Adjustment	700 Hz 7-1/2 ips 0 VU Test Tape	PLAY	VR-1 50 kB	0 ±1.0 dB (0.775V)	
2	VU Meter Sensitivity Adjustment	700 Hz 7-1/2 ips 0 VU Test Tape	PLAY	VR-3 2 kB	0 VU	
3	Recording Level Adjustment (Low Noise Tape)	SCOTCH #211 Tape 1,000 Hz 0 VU recording	REC	VR-1 10 kB	0 ±1.5 dB (0.775V)	
4	Recording Level Adjustment (Wide Range Tape)	AKAI LN-150-7 Tape 1,000 Hz 0 VU recording	REC	VR-2 10 kB	0 ±1.5 dB (0.775V)	
5	Frequency Response Adjustment	SCOTCH #211 Tape 1,000 Hz 10,000 Hz −20 VU recording	REC	C-25 80P	1,000 Hz to 10,000 Hz flat	Tape Speed 3-3/4 ips. Recheck recording level.
6	Bias Leak		REC	L-1 23 mH	Less than −50 VU	
7	Dolby Noise Reduction Adjustment					Refer to Item V-5 below.

Chart 3

NOTES: 1) Set tape speed to 3-3/4 ips for frequency response adjustment and to 7-1/2 ips for all other adjustments.
2) Set Tape Selector to "LOW NOISE" except where otherwise noted.
3) Set Monitor Switch to "TAPE" except where otherwise noted.
4) Output Volume at maximum.
5) New test tape should be used.
6) The letter b following an adjustment part number indicated "Right Channel".



DOLBY NR P.C BOARD TD-5301

Fig. 15

5. DOLBY NOISE REDUCTION ADJUSTMENT (Model GX-630DB) (Refer to Fig. 15)

NOTE: Identical P.C Boards are utilized for Recording Dolby N.R and Playback Dolby N.R The Recording Dolby N.R P.C Board is located on the Recording Amp P.C Board and the Playback Dolby N.R P.C Board is located on the Playback Amp P.C Board, Adjust left and right channels respectively.

PART-1. RECORDING DOLBY N.R CIRCUIT ADJUSTMENT

Disconnect the wire connected to Dolby circuit input and output terminals (A) and (B). Connect an Audio frequency oscillator to terminal (A) and connect a High-sensitivity VTVM to terminal (B).

1) Turn semi-fixed resistors VR1 1kB and VR2 5 kB fully clockwise (Fig. 15).
2) Ground test points T.P (Fig. 15)
3) Set Dolby Switch to OFF position.
4) Supply a 5 kHz, −10 dBm signal which has been verified with a frequency counter from the audio frequency oscillator and confirm that at this time the indication of the high-sensitivity VTVM connected to terminal (B) is 0 dBm.
5) Reduce the output of the audio frequency oscillator by −30.5 dB from the condition outlined in item 1−4) (5 kHz, −40.5 dB) and at this time confirm that the indication of the high-sensitivity VTVM connected to terminal (B) is −30.5 dB.
6) Set Dolby Switch to ON position and adjust semi-fixed resistor VR1 1 kB to obtain a −20.5 dBm indication on the high-sensitivity VTVM connected terminal (B).
7) Disconnect ground wire from test point T.P (grounded in item 1−2) and at this time adjust semi-fixed resistor VR2 5 kB to obtain a −22.5 dBm indication on the high-sensitivity VTVM connected to terminal (B).

PART-2. PLAYBACK DOLBY N.R CIRCUIT ADJUSTMENT

This adjustment is carried out in essentially the same way as the recording Dolby circuit adjustment.

Disconnect the wire connected to input and output terminals(A') and (B), connect and audio frequency oscillator to terminal(A'), and connect a high-sensitivity VTVM to terminal(B). Turn semi-fixed resistor VR1 1 kB and VR2 5 kB fully clockwise, and ground test points T.P.

1) Set Dolby Switch to OFF position and supply a 5 kHz, 10 dBm signal which has been verified with a frequency counter from the audio frequency oscillator, Confirm that the high-sensitivity VTVM indication at this time is 0 dBm. Next, lower the oscillator output by −22.5 dB and confirm that the high-sensitivity VTVM indication is −22.5 dB.
2) Set Dolby Switch to ON position and at this time adjust semi-fixed resistor VR1 1 kB to obtain a −32.5 dB high-sensitivity VTVM indication.
   Next, disconnect ground wire from test points T.P and adjust semi-fixed resistor VR-2 5 kB to obtain a −30.5 dBm indication.

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VII D.C RESISTANCE OF VARIOUS COILS

Part	Designation	D.C Resistance
Main Motor	SCM2-24KJ	Between BLU-RED: 100 ohm Between YLW-GRN: 180 ohm Pick-up Coil: 635 ohm
Reel Motor	24XO-TD	Between RED-BLU: 72 ohm Between YLW-GRN: 160 ohm
Pinch Roller Solenoid	1660 THT3	700 ohm
Brake Solenoid	1240 PHT3	900 ohm
Relay	MY4-02-US-24DC	700 ohm
Relay	LC1-C-J1DC-24V	1,150 ohm
Relay	TECK-36	1,000 ohm
Headphone Output Transformer	N16-535S	Primary: 565 ohm ± 15% Secondary: 0.95 ohm ± 15%
Oscillator Coil	OT-204	Between 1 – 3 : 0.3 ohm Between 4 – 6 : 0.7 ohm Between 7 – 9 : 8.2 ohm
Erase Head	E4-260	2.0 ohm
Recording Head	R4-200	8.0 ohm
Playback Head	P4-202	268 ohm

Chart 4

NOTE: The resistance values shown in this chart are average values.

VIII CLASSIFICATIONS OF VARIOUS P.C BOARDS

1. P.C BOARD INTERCHANGEABILITY CHART

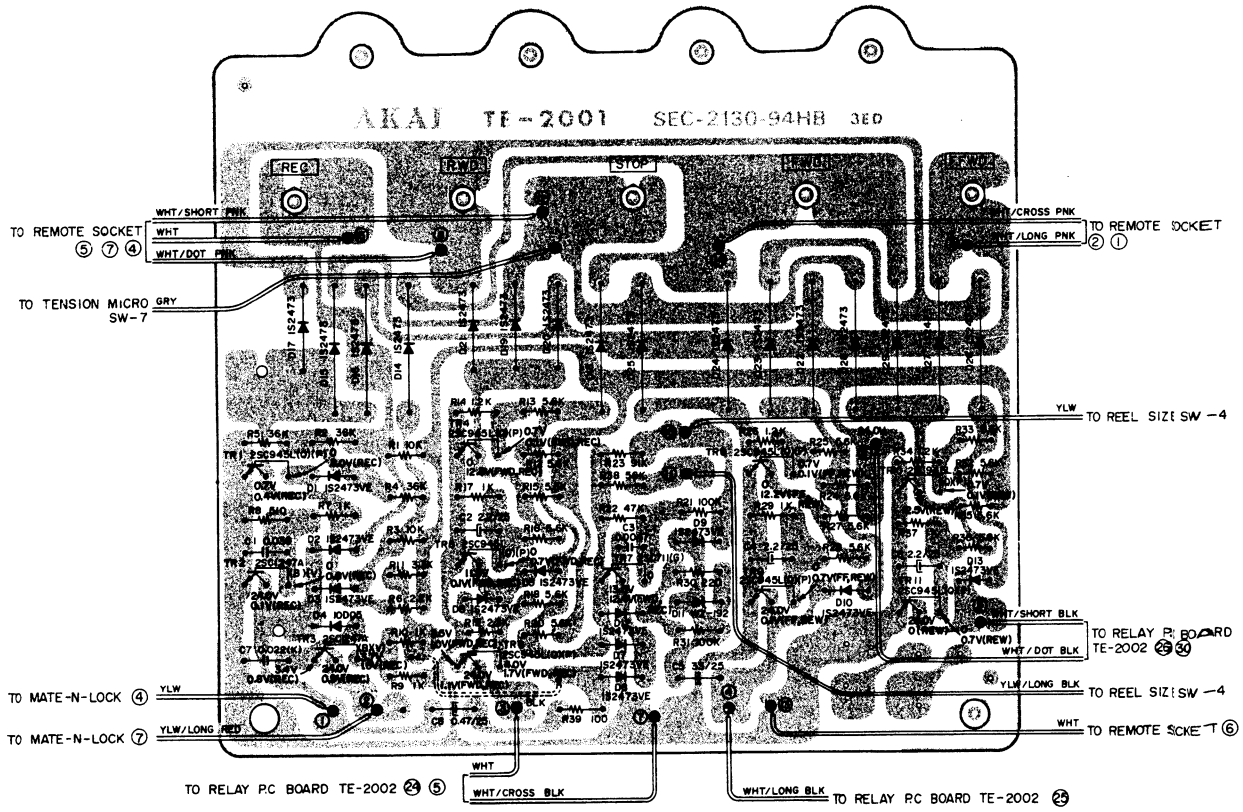
P.C Board	GX-630D	GX-630DB
Sys Con P.C Board	TE-2001	TE-2001
Relay P.C Board	TE-2002	TE-2002
Speed Switch P.C Board	TE-5001	TE-5001
Rec Mode P.C Board	TE-5003	TE-5003
SRT P.C·Board	*TD-5201	*TD-5201
Dolby P.C Board		TD-5301 4ED
Servo P.C Board	MY-2036 2ED	MY-2036 2ED
Rec & Osc Amp P.C Board	*MY-5016 3ED	*MY-5016 3ED
P.B Amp P.C Board	MY-5017 2ED	MY-5017 2ED
Transistor P.C Board	KJ-2049	KJ-2049
Jack Plate P.C Board	LE-5622	LE-5622

Chart 5

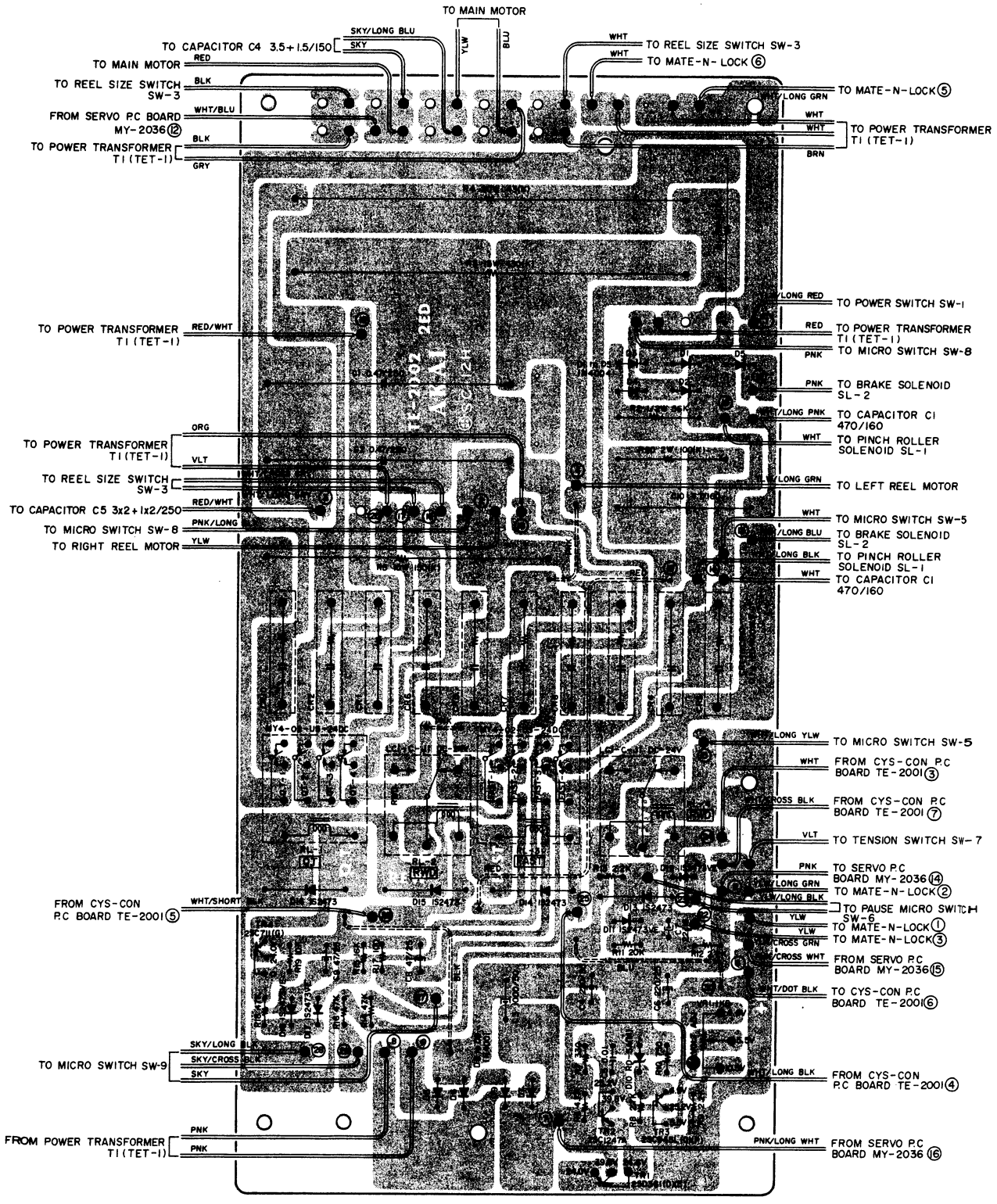
NOTE: * Mark not interchangeable

2. COMPOSITE VIEWS OF VARIOUS P.C BOARDS

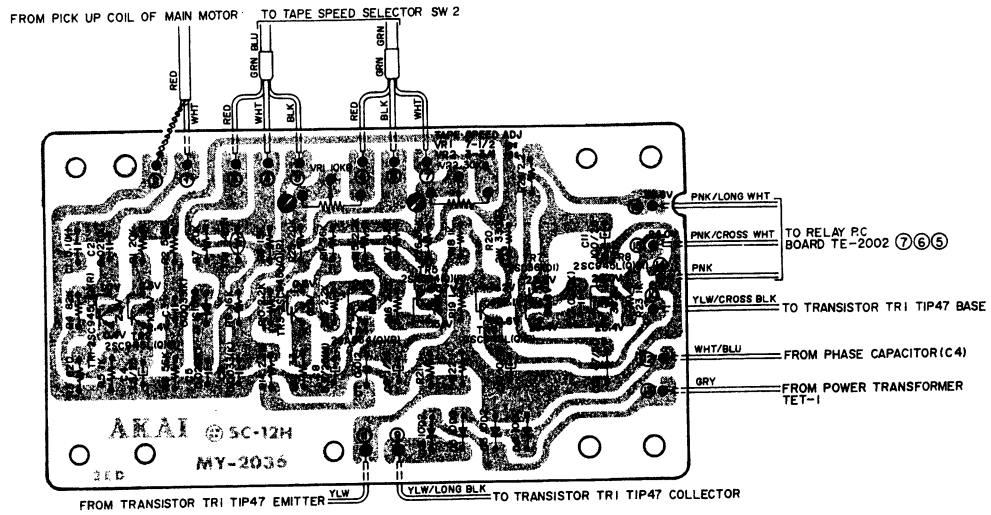
1) CYSCON P.C BOARD TE-2001



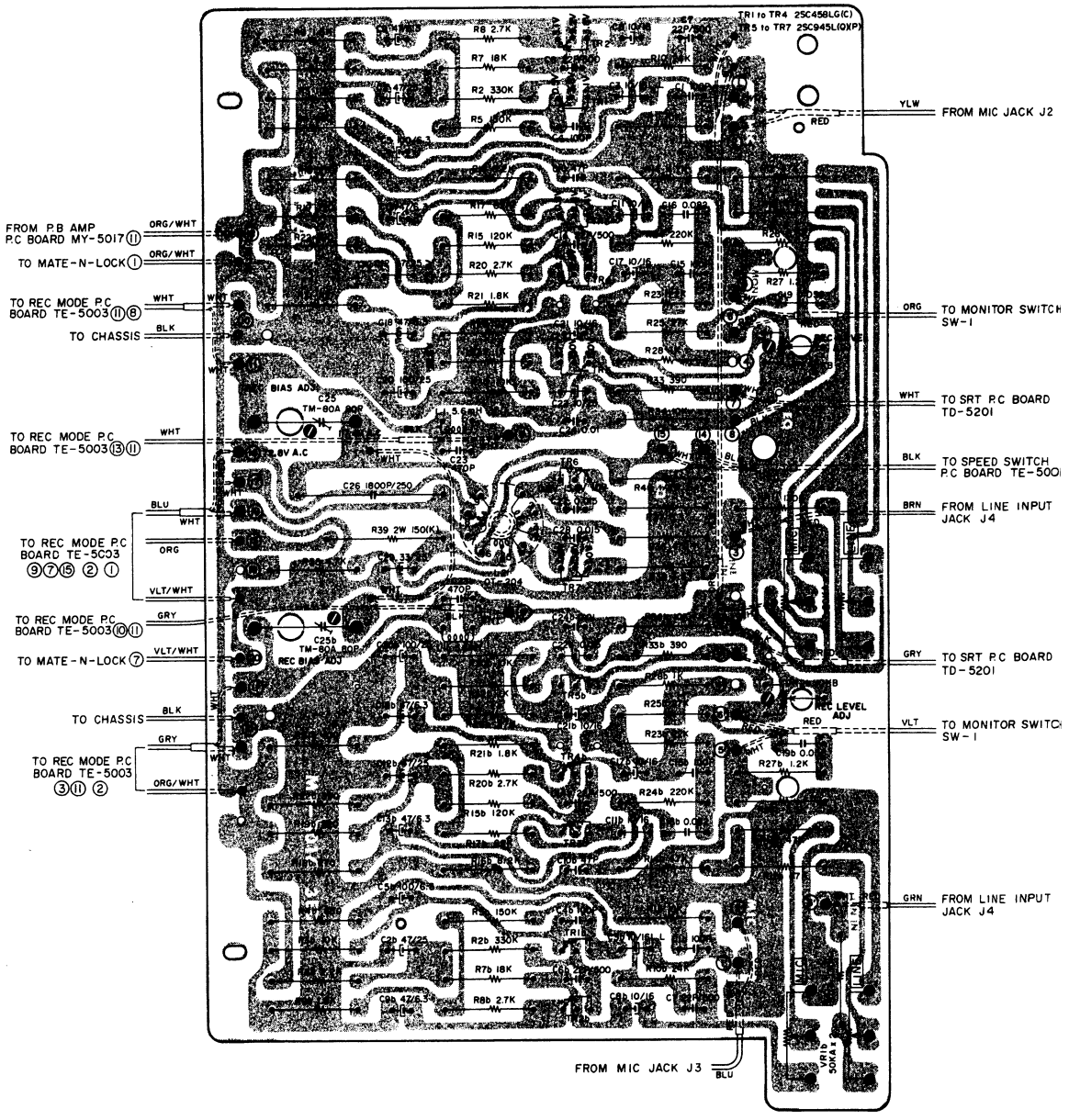
2) RELAY P.C BOARD TE-2002



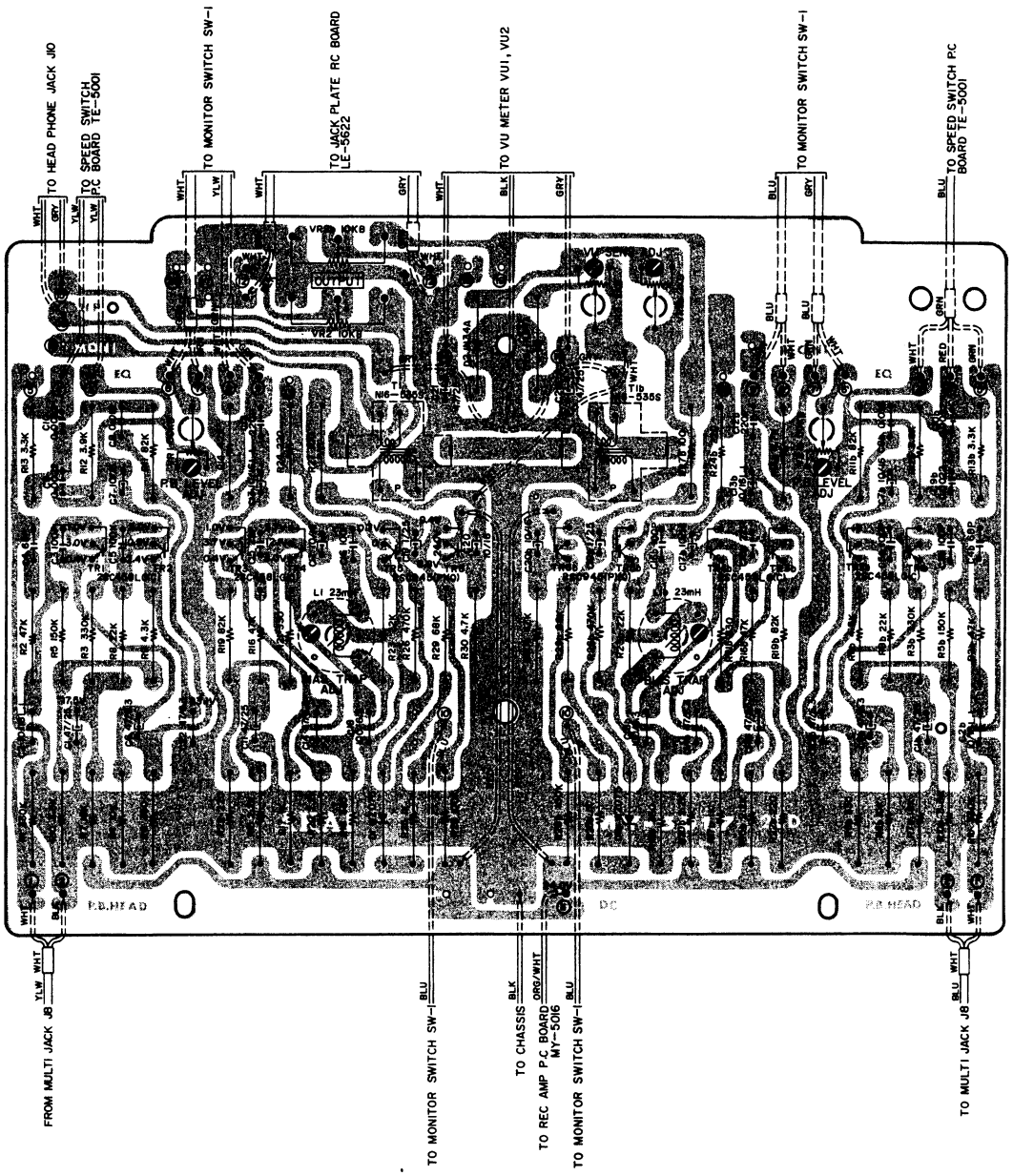
3) SERVO P.C BOARD MY-2036



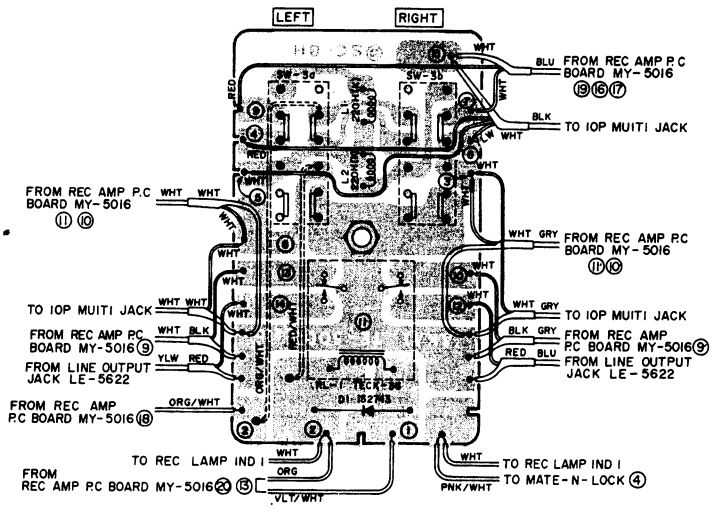
4) RECORDING AMP P.C BOARD MY-5016



5) PLAYBACK AMP P.C BOARD MY-5017

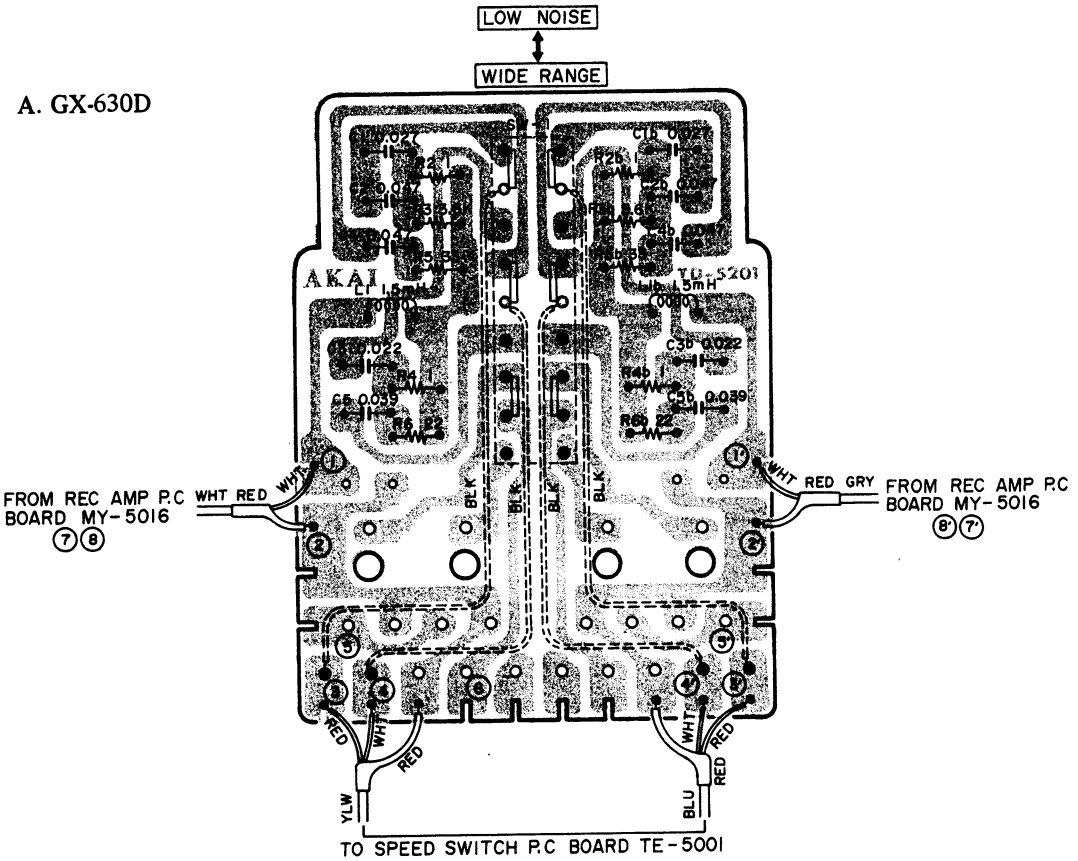


6) RECORDING MODE P.C BOARD TE-5003

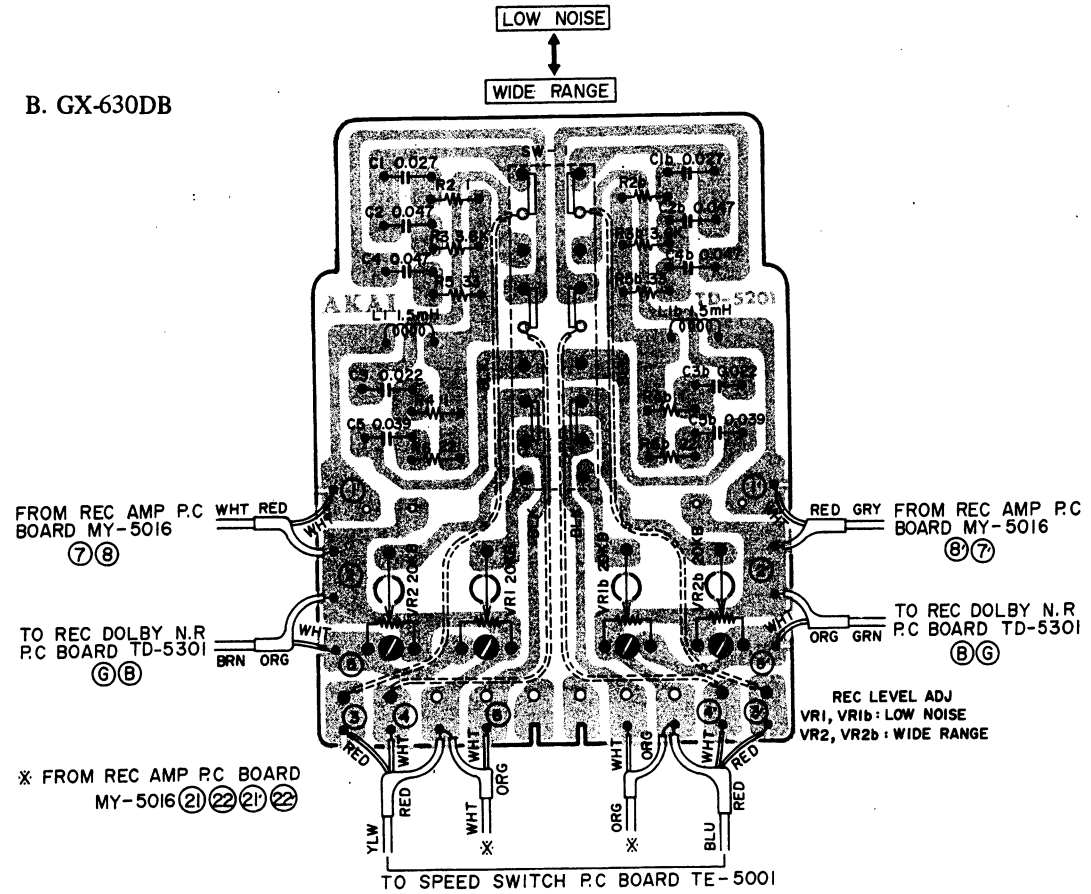

LEFT
RIGHT
FROM REC AMP P.C BOARD MY-5016
TO IOP MUITI JACK
FROM REC AMP P.C BOARD MY-5016
FROM REC AMP P.C BOARD MY-5016
TO IOP MUITI JACK
FROM REC AMP P.C BOARD MY-5016
TO IOP MUITI JACK
FROM REC AMP P.C BOARD MY-5016
FROM LINE OUTPUT JACK LE-5622
FROM LINE OUTPUT JACK LE-5622
FROM REC AMP P.C BOARD MY-5016
TO REC LAMP IND I
FROM REC AMP P.C BOARD MY-5016
TO REC LAMP IND I
TO MATE-N-LOCK

7) SRT P.C BOARD TD-5201

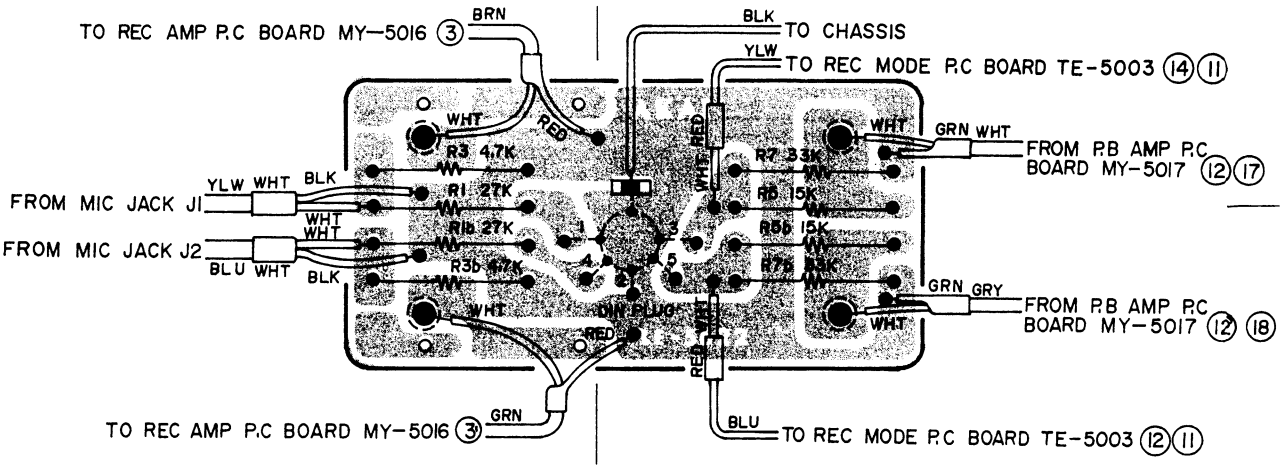
A. GX-630D



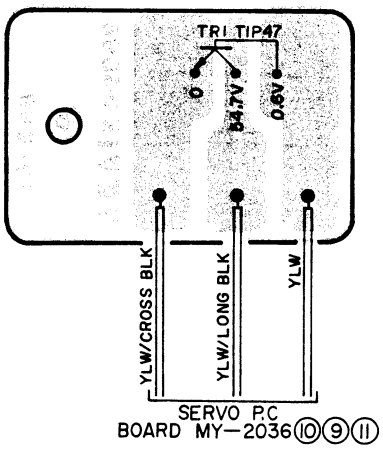
B. GX-630DB



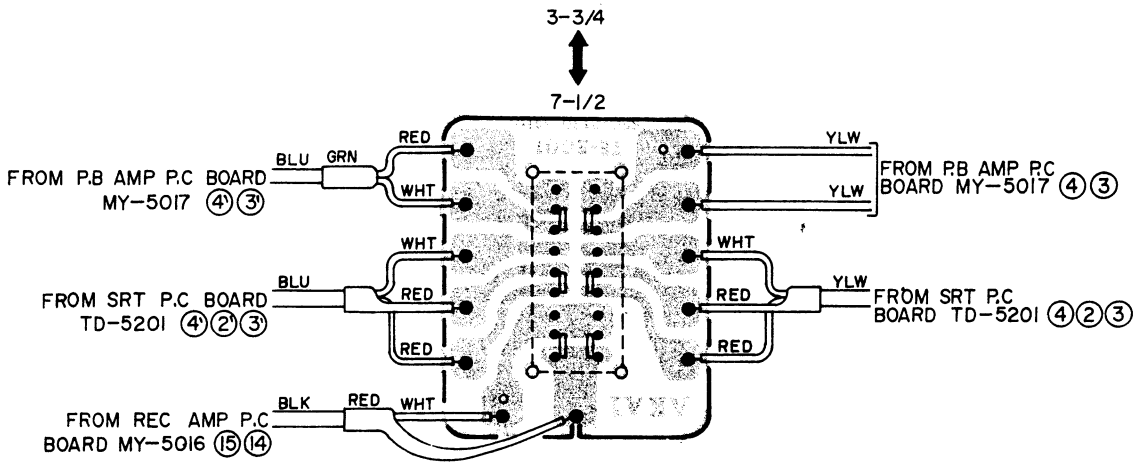
8) JACK PLATE P.C BOARD LE-5622



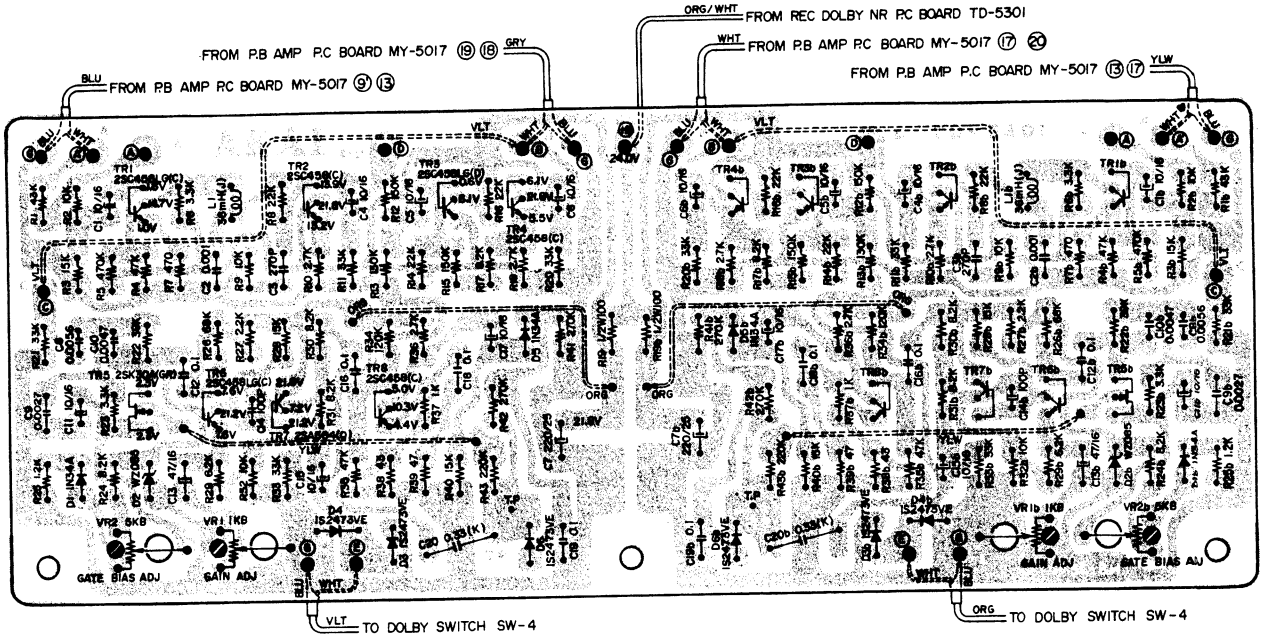
9) TRANSISTOR P.C BOARD KJ-2049



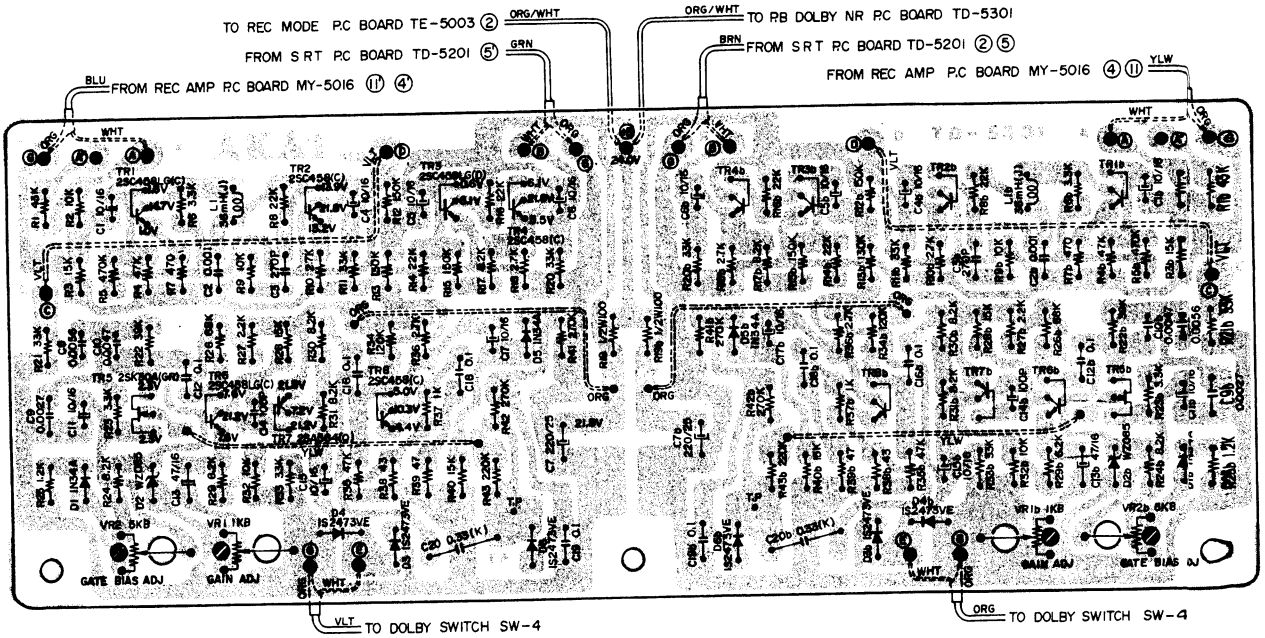
10) SPEED SWITCH P.C BOARD TE-5001



11) P.B DOLBY N.R P.C BOARD TD-5301


ORG/WHT FROM REC DOLBY NR P.C BOARD TD-5301
WHT FROM P.B AMP P.C BOARD MY-5017 ⑰ ⑳
FROM P.B AMP P.C BOARD MY-5017 ⑲ ⑱ GRY
FROM P.B AMP P.C BOARD MY-5017 ⑬⑰ YLW
BLU FROM P.B AMP P.C BOARD MY-5017 ⑨ ⑬
VR2 5KB
GATE BIAS ADJ
VR1 1KB
GAIN ADJ
VR1b 1KB
GAIN ADJ
VR2b 5KB
GATE BIAS ADJ
VLT TO DOLBY SWITCH SW-4
ORG TO DOLBY SWITCH SW-4

12) REC DOLBY N.R P.C BOARD TD-5301


TO REC MODE P.C BOARD TE-5003 ② ORG/WHT
FROM S R T P.C BOARD TD-5201 ⑤ GRN
ORG/WHT TO P.B DOLBY NR P.C BOARD TD-5301
BRN FROM S R T P.C BOARD TD-5201 ②⑤
FROM REC AMP P.C BOARD MY-5016 ④⑪ YLW
BLU FROM REC AMP P.C BOARD MY-5016 ⑪ ④
VR2 5KB
GATE BIAS ADJ
VR1 1KB
GAIN ADJ
VR1b 1KB
GAIN ADJ
VR2b 5KB
GATE BIAS ADJ
VLT TO DOLBY SWITCH SW-4
ORG TO DOLBY SWITCH SW-4

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SECTION 2

PARTS LIST

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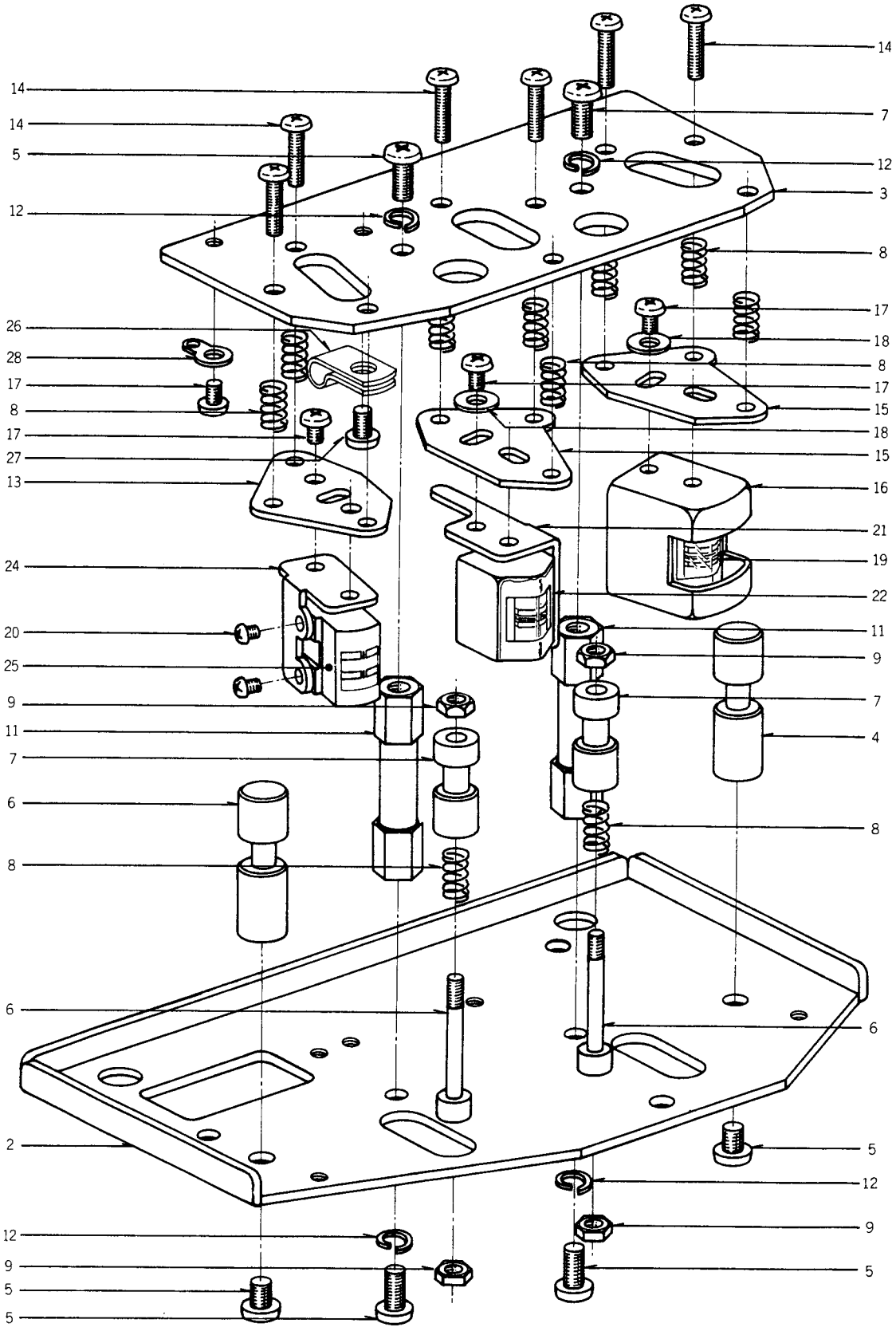
Some of the parts in this parts list are only available as a complete assembly, and can not be supplied as individual parts.

ILLUSTRATION OF HEAD BLOCK



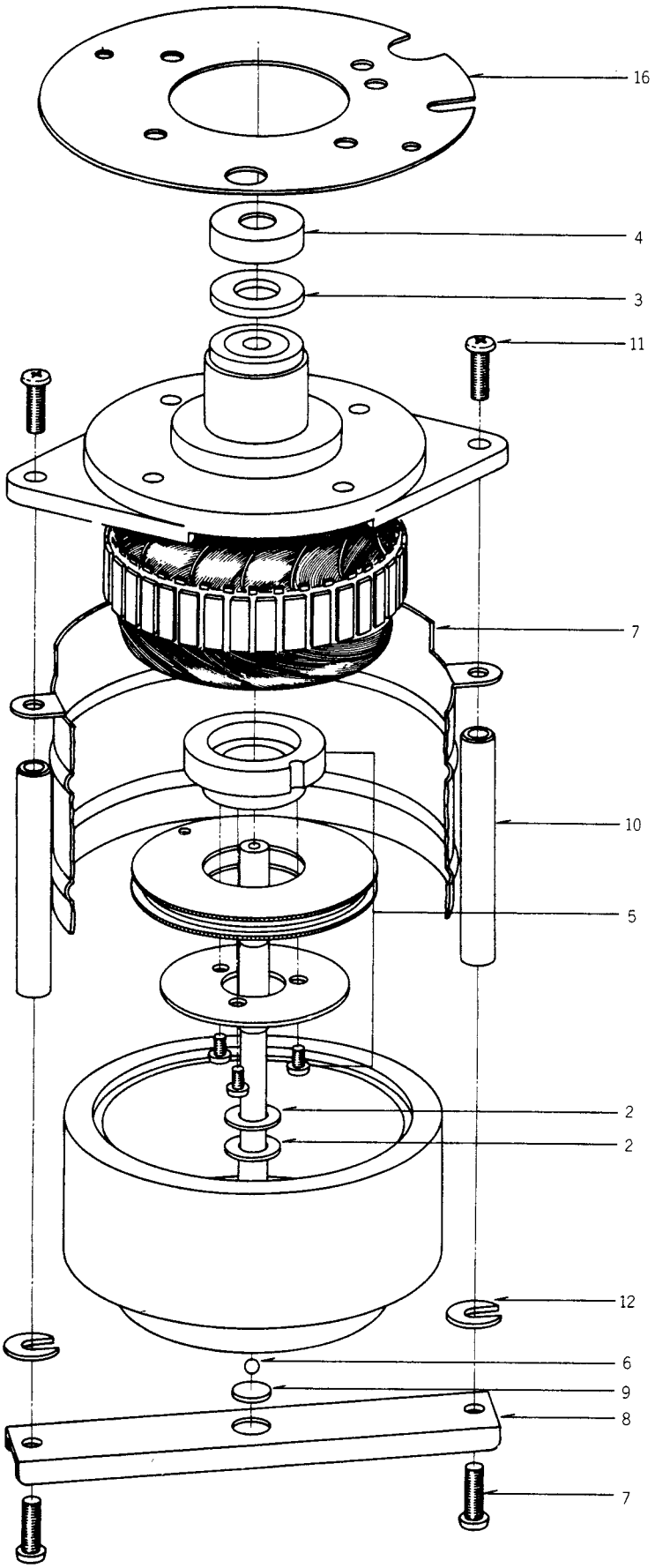
1) HEAD BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
1-1x	BH638008	Head Block Comp. GX-630D/DB		1
1-2	HZ643544	Head Base	TE-0001	1
1-3	HZ645298	Head Base C	TD-0001	1
1-4	HZ803597	Tape Guide A	RD-3	2
1-5	ZS537006	Screw, binding head 4x8		6
1-6	MH578957	Tape Guide Prop	TD-0003	2
1-7	HZ532710	Tape Guide B	TW-0006	2
1-8	ZG466312	Angle Adjust Spring E	BS-0018	11
1-9	ZW273835	Nut M3		4
1-10x	ZW273745	Spring Washer M3		2
1-11	MH529233	Head Base Prop B	ND-0017	2
1-12	ZW273914	Spring Washer M4		4
1-13	HZ532732	CH Retaining Base	TW-0008	1
1-14	ZS562432	Screw, binding head 3x13		9
1-15	HZ532765	PH Retaining Base	TW-0010	2
1-16	HZ532776	Shield Case	TW-0011	1
1-17	ZS396000	Screw, binding head 3x4		7
1-18	ZW413256	Washer (SPC) D3.4x7.8x0.5t		2
1-19	HP536501	PB. HEAD P4-202		1
1-20	ZS394525	Screw, binding head 2x3		2
1-21	HA533597	RH Angle	TW-0201	1
1-22	HR384513	REC. HEAD R4-200		1
1-23x	ZS460438	Screw, binding head 2x3		2
1-24	HA533608	EH Angle	TW-0202	1
1-25	HE563220	ERASE HEAD E4-260		1
1-26	EJ315101	Nylon Clip HP-4N	2-7-38	1
1-27	ZS355511	Screw, binding head 3x6		1
1-28	ZW273881	Earth Lug M4		1

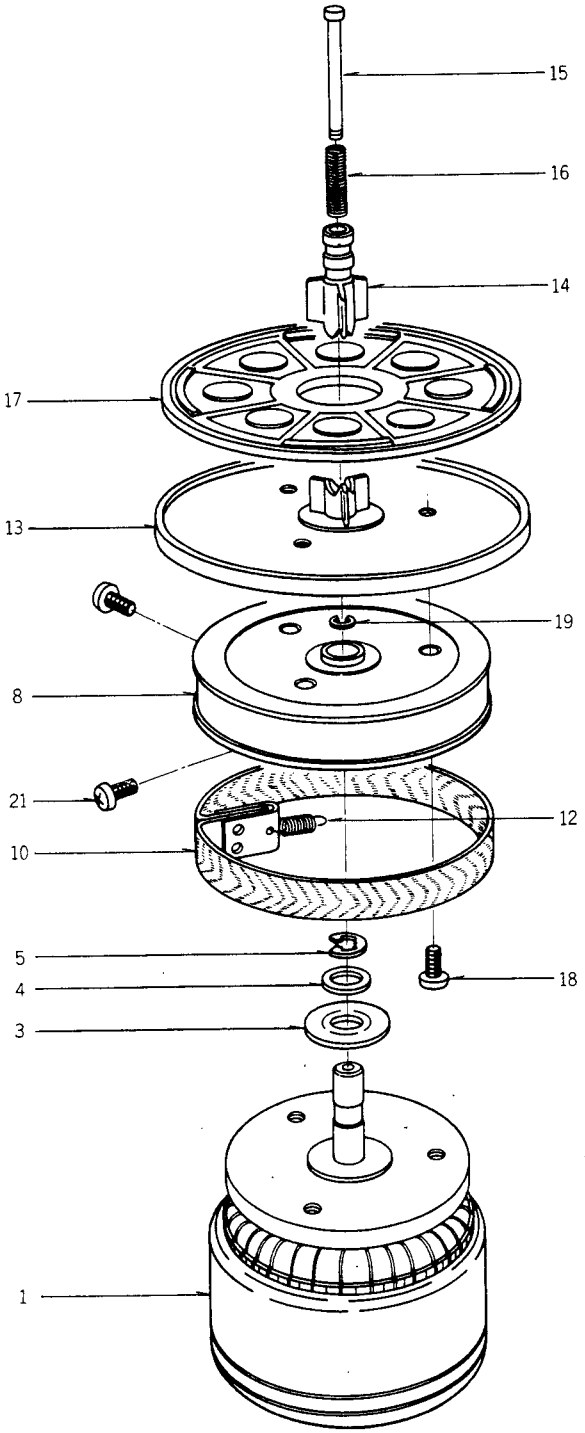
2) MAIN MOTOR BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
2-1x	BM637975	Main Motor Block (SCM2-24KJ) Comp.	KJ,MY,NE,TE	1
2-2	ZW597543	Thrust Washer A	KJ-7009	2
2-3	ZW597622	Felt Washer	KJ-7022	1
2-4	SK597633	Cap	KJ-7023	1
2-5	BZ600300	Detector Gear Block Comp.	KJ,MY,NE,TE	1
2-6	MV368886	Steel Ball D3		1
2-7	MZ650046	Motor Shield Plate	TE-7008	1
2-8	MZ597644	Thrust Angle	KJ-7024	1
2-9	MZ597690	Ball Holder	KJ-7029	1
2-10	MS597655	Thrust Holding Prop	KJ-7025	2
2-11	ZS413234	Screw, pan head 4x12		4
2-12	ZW603786	Adjust, Washer (U) D4x13x0.2t		2
2-13x	ZW603797	Adjust, Washer (U) D4x13x0.5t		2
2-14x	ZW603764	Adjust, Washer (U) D4x13x1.2t		2
2-15x	ZW603775	Adjust, Washer (U) D4x13x1.6t		2
2-16	EZ627862	Coil End Shield Plate	MY-7001	1

2 ILLUSTRATION OF MAIN MOTOR BLOCK



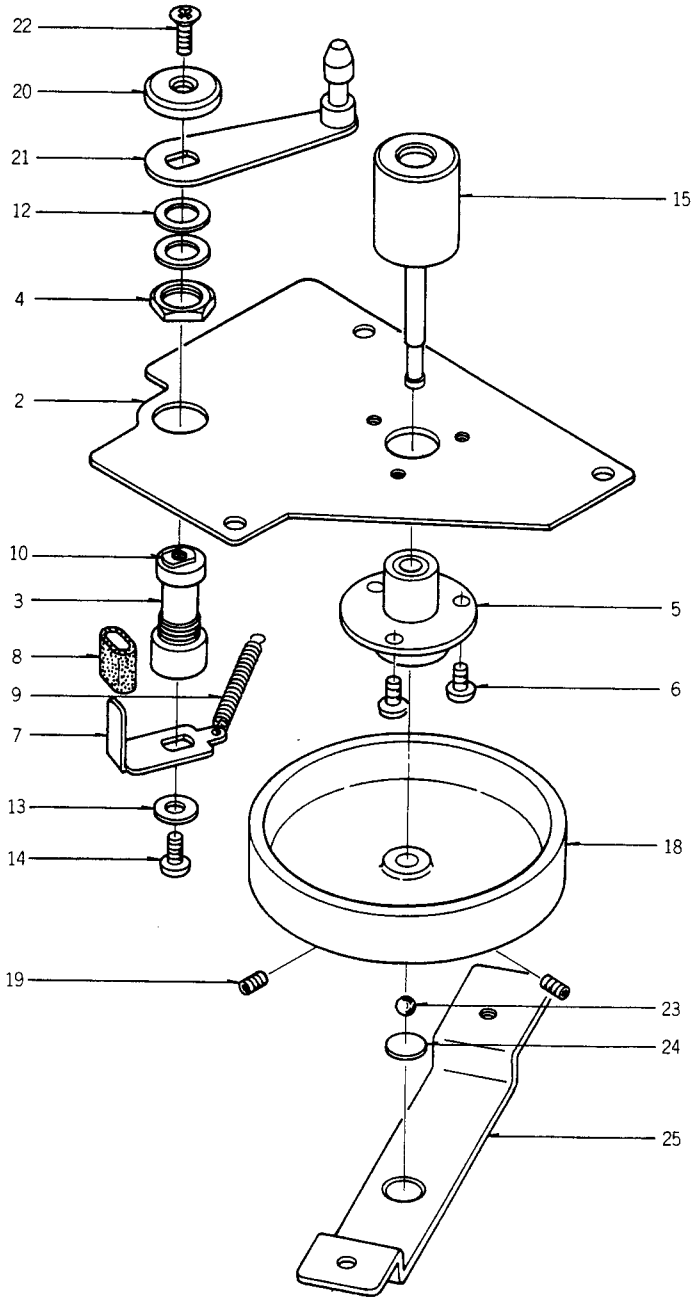
3 ILLUSTRATION OF REEL MOTOR/REEL TABLE BLOCK



3) REEL MOTOR/REEL TABLE BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
	REEL MOTOR BLOCK			
3-1	BM587518	Reel Motor Block (24XO-TD) Comp.	TD,TE,TY	1
3-2x	MV408510	Bearing 608VVMC2ERAV2L		1
3-3	MZ248185	Bearing Retainer	3R-758	1
3-4	ZW260278	Washer (Nylon) D8.1x13x0.5t		1
3-5	ZW270156	'E' Ring 6M	6-1-9	1
	REEL TABLE BLOCK			
3-6x	BR587542	Reel Table Block (Left)	TD,TE	1
3-7x	BR587553	Reel Table Block (Right)	TD,TE	1
3-8	MT577473	Brake Drum Left B	MR-215	1
3-9x	MZ576538	Brake Drum Light B	MR-216	1
3-10	MT436860	Brake Cloth Comp.	MR-269	1
3-11x	MT317485	U Metal Fitting	MR-218	1
3-12	ZG317496	Felt Tension Spring	MR-260	1
3-13	MT534666	Reel Table	TW-2131	1
3-14	MT534677	Reel Clamper	TW-2132	1
3-15	MS342000	Reel Shaft	3R-108	1
3-16	ZG540617	Clamp Spring	TW-2196	1
3-17	MT534688	Reel Table Rubber	TW-2133	1
3-18	ZS413785	Screw, binding head 3x12		3
3-19	ZW270088	'E' Ring 1.9M	6-1-9	1
3-20x	ZW562476	Earth Lug M3		1
3-21	ZS435273	Screw, binding Head 4x10		2

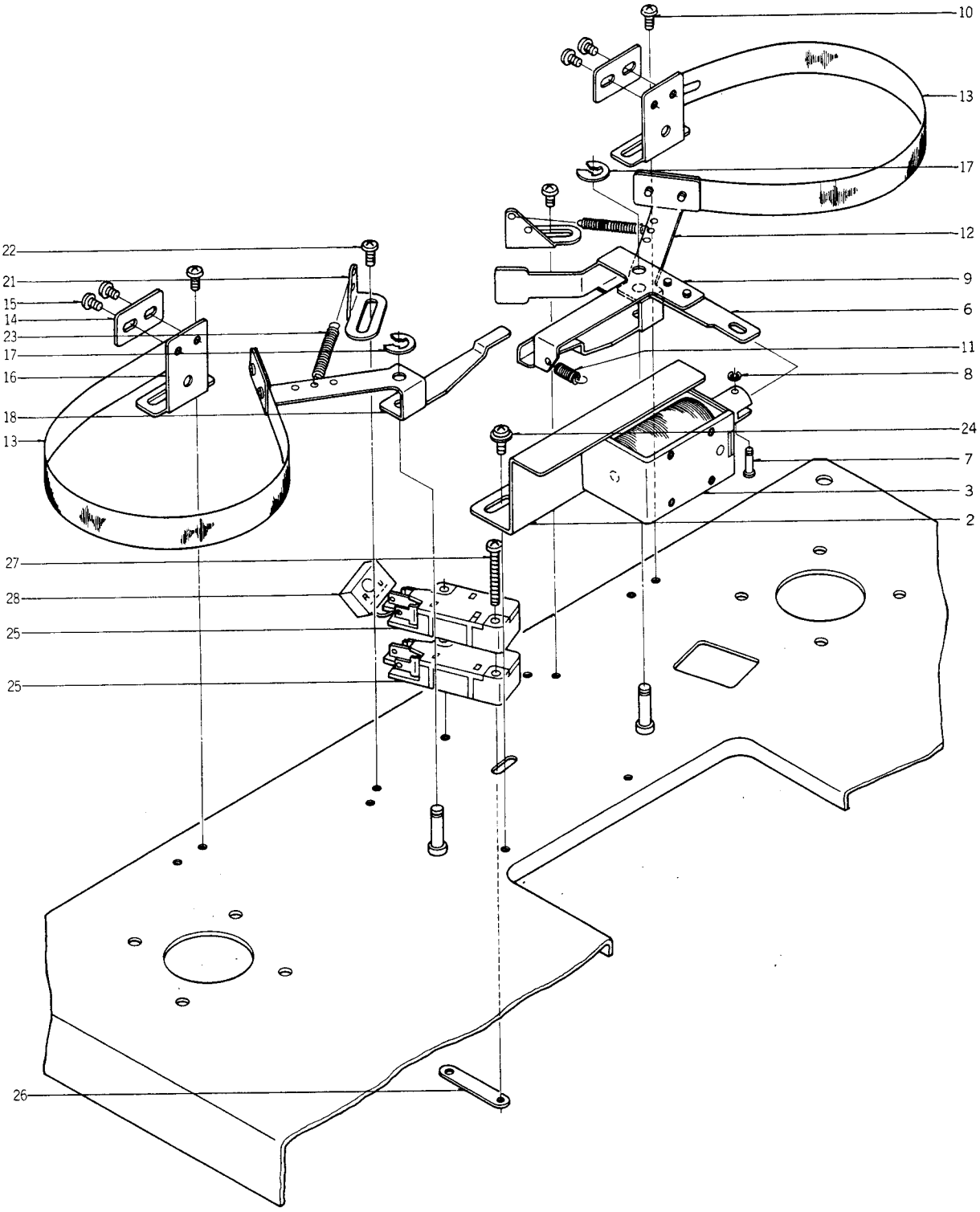
4 ILLUSTRATION OF IMPEDANCE ROLLER BLOCK



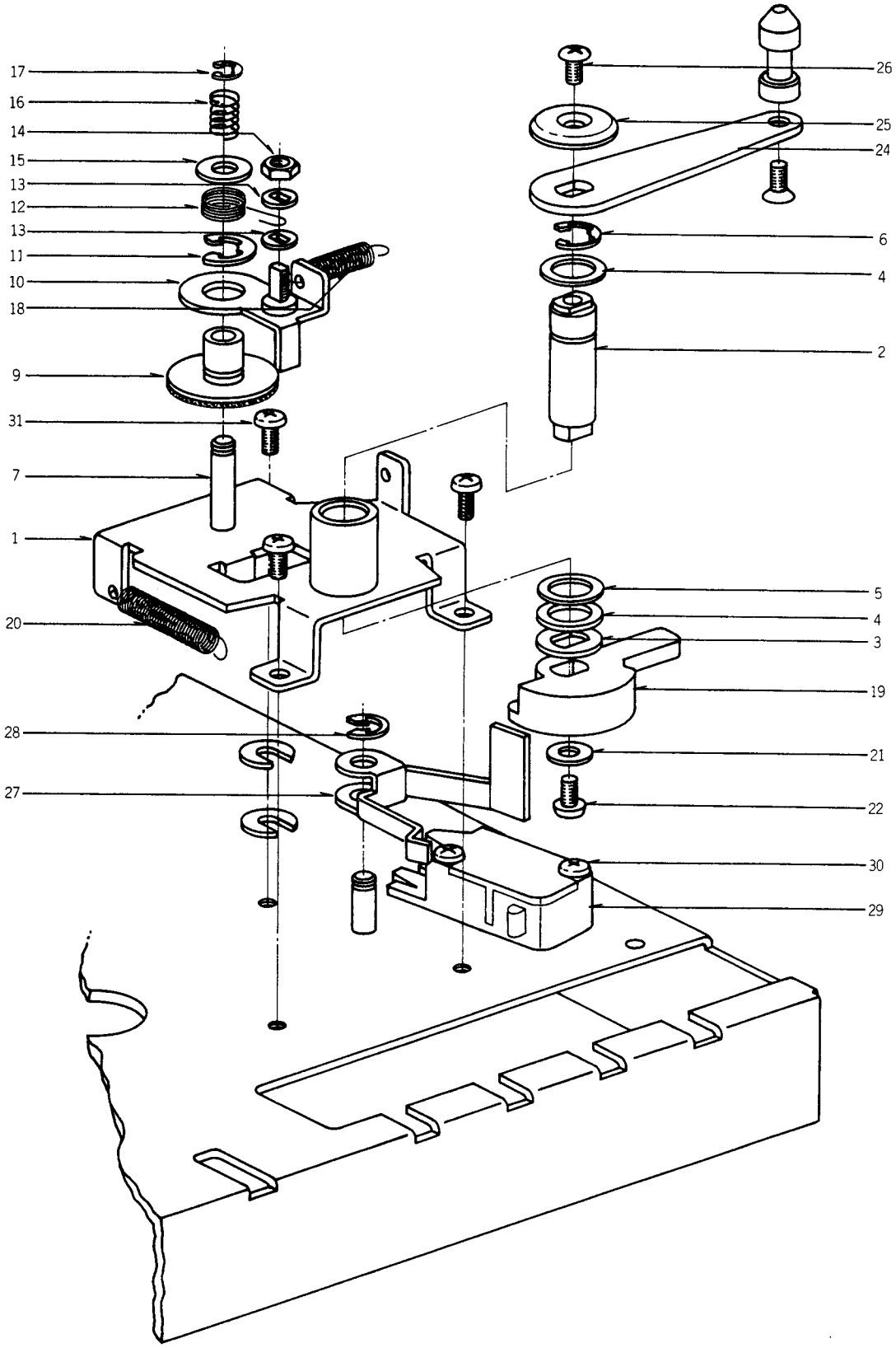
4) IMPEDANCE ROLLER BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
4-1x	BI637931	Impedance Roller Block Comp.	TE	1
4-2	MZ643375	Impedance Plate	TE-2004	1
4-3	MV643386	Shaft Metal	TE-2005	1
4-4	ZW603990	Metal Nut	6-3-9	1
4-5	MZ597093	Metal Case, w/metal	KJ-2029	1
4-6	ZS499331	Screw, pan head 2.3x5		3
4-7	MZ643408	Stopper	TE-2007	1
4-8	MB665561	TE Stopper Rubber	TE-2039	1
4-9	ZG535105	Tension Arm Spring	TW-2078	1
4-10	MS643397	Shaft	TE-2006	1
4-11x	ZS481724	ISO Screw, truss head 3x6		1
4-12	ZW260010	Washer (PBP) D6.1x10x0.1t		3
4-13	ZW556828	Washer D3.5x10x0.5t		1
4-14	ZS417216	Screw, pan head 3x4		1
4-15	MR597115	Impedance Roller, w/shaft	KJ-2033	1
4-16x	MZ597126	Roller Plate	KJ-2035	1
4-17x	ZW655953	Washer D4.1x10x1t		1
4-18	MI597183	Flywheel	KJ-2041	1
4-19	ZS593796	Set Screw, hexagon socket 3x6 (Flat/P.)		2
4-20	ZW535094	Decorative Washer	TW-2077	1
4-21	MZ643858	T Arm, w/Guide	TE-2003	1
4-22	ZS411660	Screw, oval countersunk head 3x6		2
4-23	MV269965	Steel Ball D4		1
4-24	ZW235585	Nylon Plate D8		1
4-25	MZ640664	Thrust Supporting Plate	TE-2022	1

5 ILLUSTRATION OF BRAKE PLUNGER BLOCK



6 ILLUSTRATION OF TENSION ARM BLOCK



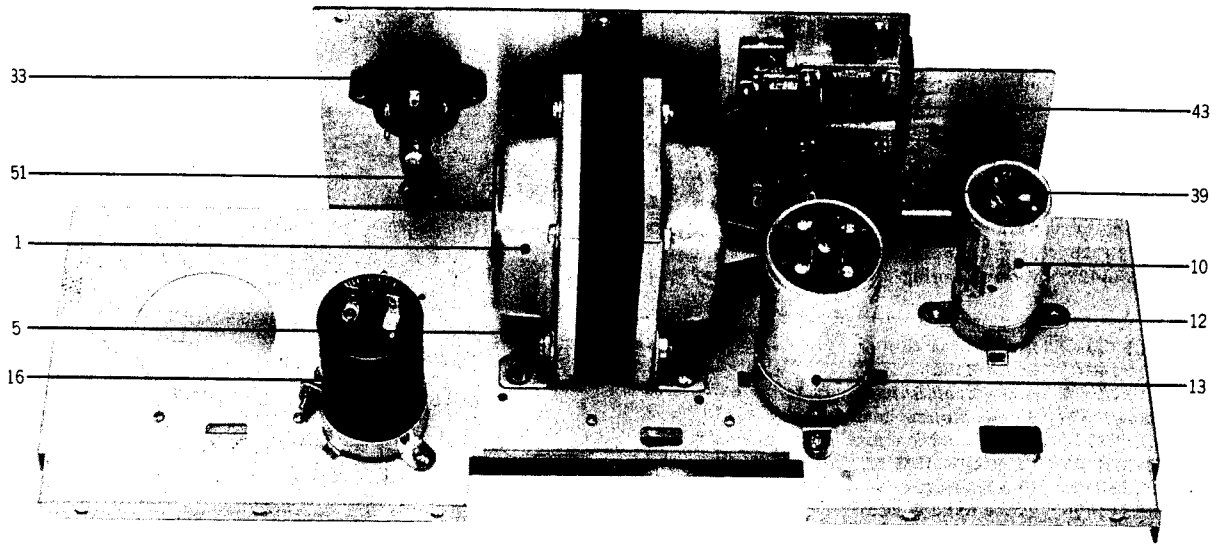
5) BRAKE PLUNGER BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
5-1x	BZ637986	Brake Plunger Block Comp.	TE	1
5-2	MZ643498	Plunger Retaining Plate	TE-2016	1
5-3	EP638695	Plunger Solenoid 1240PHT3	44-1-80	1
5-4x	ED570273	Silicon Diode LN4004	45-2-59	1
5-5x	ZS422076	Screw, pan head 3x5		2
5-6	ML643476	Brake Plunger Lever	TE-2014	1
5-7	MH257477	Connecting Pin	RD-211	1
5-8	ZW270088	'E' Ring 1.9M	6-1-9	1
5-9	ML643387	Brake Band Lever	TE-2015	1
5-10	ZS323728	Screw, binding head 3x5		6
5-11	ZG586427	Reverse Spring	CP-1192	1
5-12	ML533643	Brake Lever B	TW-1030	1
5-13	MT314987	Brake Band	MR-213	2
5-14	MZ314998	Brake Band Retaining Plate	MR-212	4
5-15	ZS417137	Screw, binding head 3x4		8
5-16	ML582074	Brake Band Support	TD-1023	2
5-17	ZW290283	'U' Ring 2.85M	6-1-1	2
5-18	ML582041	Brake Lever A	TD-1019	1
5-19x	MZ317406	Brake Band Guide	MR-120	2
5-20x	ZS413166	Screw, round head 3x6		4
5-21	MZ314605	Spring Rack, MR	MR-104	2
5-22	ZS379405	ISO Screw, binding head 3x6		4
5-23	ZG540090	Brake Lever Spring	TW-1058	2
5-24	ZS422076	Screw, pan head 3x5		2
5-25	ES573456	Micro SW. K-2	25-1-30	2
5-26	ZW397146	Micro SW. Nut	KD-1057	1
5-27	ZS608354	Scres, pan head 3x30		2
5-28	ER450786	Spark Quencher U/L 0.1μ+120ohm 400WV	41-1-33	1

6) TENSION ARM BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
6-1	ML580443	Tension Arm Base, w/metal	TD-2037	1
6-2	MS645502	Tension Shaft	TD-2041	1
6-3	ZW580498	Tension Arm Washer	TD-2042	1
6-4	ZW575763	Washer (SPC) D8.1x13x0.5t		2
6-5	ZW260256	Washer (PBP) D8.1x13x0.1t		2
6-6	MH244710	Flywheel Fixing Pin	900-250	1
6-7	MH580588	Damper Prop	TD-2052	1
6-8x	TC387617	Clutch Felt	CS-2011	1
6-9	MZ580577	Clutch Plate, w/metal A	TD-2051	1
6-10	ML580555	Clutch Lever, w/spring retainer	TD-2048	1
6-11	ZW270156	'E' Ring 6M	6-1-9	1
6-12	ZG580511	Clutch Spring	TD-2044	1
6-13	ZW580678	Spring Retaining Washer	TD-2067	2
6-14	ZW273756	Nut M3		2
6-15	ZW575774	Washer D4.5x9.8x0.7t		1
6-16	ZG580533	Cramp Spring	TD-2046	1
6-17	ZW410051	'E' Ring 2.5	6-1-9	1
6-18	ZG580522	Clutch Lever Spring	TD-2045	1
6-19	MZ580500	Cam. SW.	TD-2043	1
6-20	ZG659608	Tension Spring	TE-2034	1
6-21	ZW550642	Washer (SPC) D3.1x7.9x0.5t		1
6-22	ZS323728	Screw, binding head 3x5		1
6-23x	MZ810191	Cushion Rubber, RD	RD-278	1
6-24	ML580465	Tension Arm, w/guide B	TD-2039	1
6-25	ZW535094	Decorative Washer	TW-2077	1
6-26	ZS200384	Screw, countersunk head 3x6		1
6-27	MZ580680	Actuator	TD-2068	1
6-28	ZW290283	'U' Ring 2.85M	6-1-1	1
6-29	ES573456	Micro SW. K-2	25-1-30	2
6-30	ZS508354	Screw, pan head 3x30		2
6-31	ZS413155	Screw, binding head 3x6		4

7 PHOTO OF POWER SUPPLY/CONNECTOR PANEL BLOCK

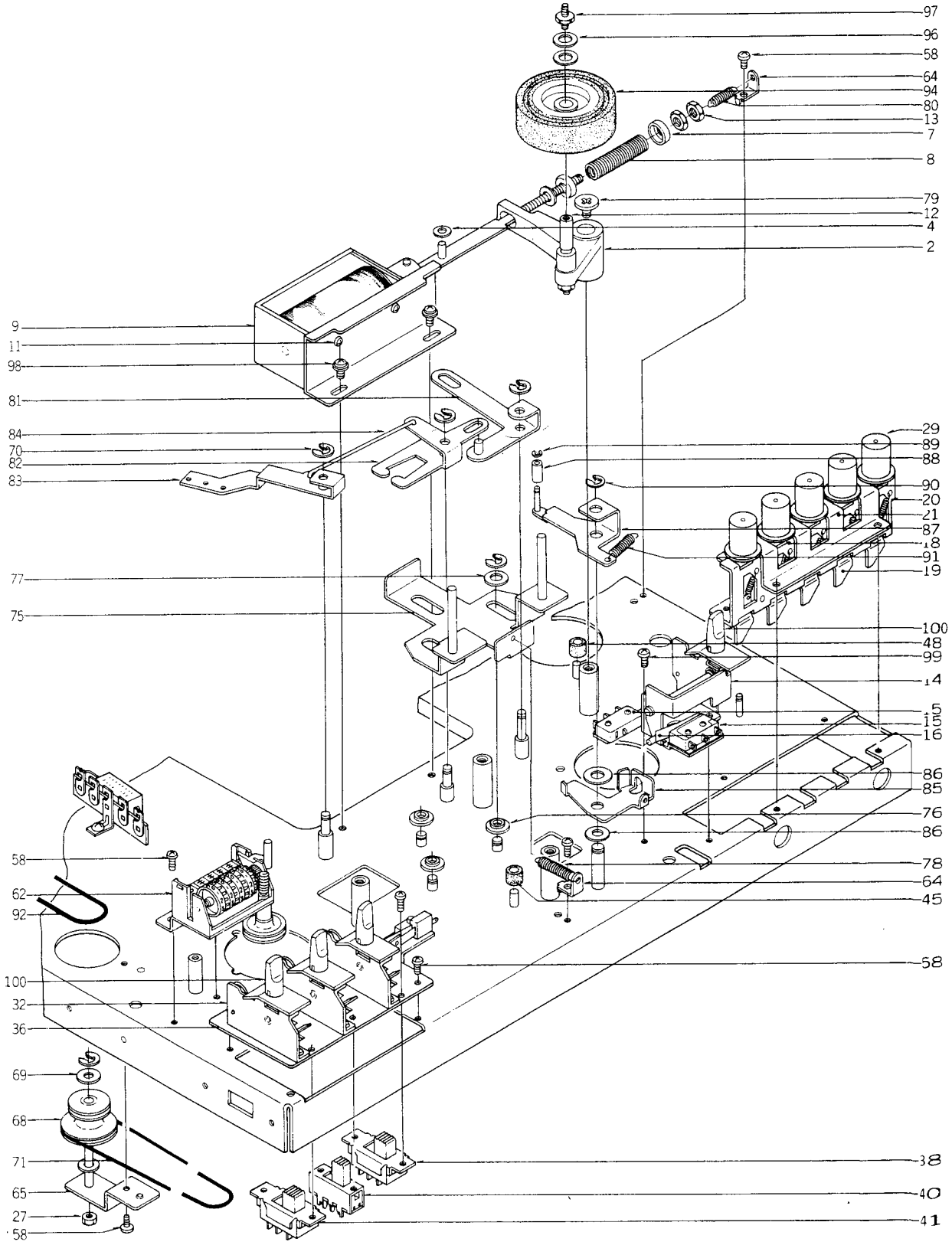


7) POWER SUPPLY/CONNECTOR PANEL BLOCK

Ref. No.	Parts No.	Descritpion	Schematic No.	Q'ty
	POWER SUPPLY BLOCK			
7-1	BT640517	Power Trans. TET-1	38-4-354	1
7-2x	BT661858	Power Trans. TET-5 (CEE)	38-4-389	1
7-3x	BT661926	Power Trans. TET-4 (CSA)	38-4-388	1
7-4x	BT661904	Power Trans. TET-3 (JPN)	38-4-387	1
7-5	ZW510827	Tapping Screw #2 4x6 BR		4
7-6x	ZS413201	Screw, pan head 4x8 (CEE, CSA, JPN)		4
7-7x	ZW273892	Toothed Lock Washer M4 (CEE)		4
7-8x	ZW413188	Nut M4 (CEE, CSA, JPN)		4
7-9x	ZW273914	Spring Washer M4 (CSA, JPN)		4
7-10	EC593763	MP/C. 3.5+1.5μF 150WV AC (LUG Type Uni/D.)	24-9-88	1
7-11x	EC661882	MP/C. 5μF 150WV AC (Lug Type Uni/D.) (CEE)	24-9-111	1
7-12	ZS325495	Tapping Screw #2 3x6		13
7-13	EC520626	MP/C. (3+1)μFx2 250WV AC (Lug Type Uni/D.)	24-9-74	1
7-14x	EC641136	MP/C. 4+4 μF 250WV AC (Lug Type Uni/D.) (CEE)	24-9-103	1
7-15x	EC536927	MP/C. 3μFx2 250WV AC (Lug Type Uni/D.) (CSA)	24-9-79	1
7-16	EC557190	Elect./C. 470μF 160WV (Lug Type)	24-10-88	1
7-17x	EF623103	Fuse 1AT (SEMKO T Type) (CEE)	39-1-53	5
7-18x	EF487427	Fuse ULMF61M 250V 0.2A (CSA)	39-1-45	1
7-19x	EF511637	Fuse ULMF61M 250V 1A (CSA)	39-1-45	4
7-20x	EF588420	Fuse 1A 125V (JPN)	39-1-52	5
7-21x	EF654210	Fuse 0.25A 125V (JPN)	29-1-52	1
7-22x	EA642701	Repeter P.C Board (CEE)	33-2-52	1
7-23x	EZ614586	Fuse Table MY (CEE)	MY-2043	1
7-24x	ZS379350	ISO Screw, pan head 3x6 (CEE)		2
7-25x	EC650968	Thermister (SINE) PTH62AR 100M (CEE,CSA,JPN)	45-14-3	2

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
7-26x	EJ654221	Lug Plate KPL4L (CEE,CSA,JPN)	33-3-26	1
7-27x	ZW273881	Earth Lug M4 (CEE)		1
7-28x	ZS417150	Screw, pan head 4x6 (CEE)		1
7-29x	ZW413188	Nut M4 (CEE)		1
7-30x	ZW273892	Toothed Lock Washer M4 (CEE)		1
7-31x	MT553948	Wire Band B	2-35-3	2
7-32x	EJ510333	Wire Clip 220-JD481610-0104 (Nylon)	2-7-17	1
7-33	EJ233370	Socket (Volt. Selector) S-18010	40-2-3	1
7-34x	EZ654208	Fuse Holder TE (CEE,JPN)	40-1-74	1
7-35x	EZ655198	Fuse Holder 5P Base (CSA)	40-1-71	1
7-36x	MZ583198	Fuse Angle TD (CEE,CSA,JPN)	TD-1067	2
7-37x	ZS379350	ISO Screw, pan head 3x6 (CEE,CSA,JPN)		2
7-38x	EF623114	Fuse (SEMKO T Type) 200MAT (C1200MAT (CEE)	39-1-53	1
	CONNECTOR PANEL BLOCK			
7-39	EJ222748	Socket, Sub Magnale #311SG	31-1-39	1
7-40x	MZ302400	Remote Control Socket Mt. Plate	RX-515	1
7-41x	ZS355522	Screw, pan head 3x6		5
7-42x	ML580612	F SW. Table A	TD-2059	1
7-43	ES479485	Slide SW. S-1	25-3-66	3
7-44x	ZS422076	Screw, pan head 3x5		4
7-45x	ZS327835	ISO Screw, countersunk head 3x5		2
7-46x	MZ580601	F SW. Plate	TD-2058	1
7-47x	EA597251	Transistor P.C Board	KJ-2049	1
7-48x	ET621786	Transistor T1P-48	45-1-197	1
7-49x	ZS421806	Screw, pan head 3x8		1
7-50x	ZW516611	Nut M3		1
7-51	EJ631945	Strain Relief SR-4N-4	2-7-49	1
7-52x	EZ246936	Strain Relief SR-6W-1 (CEE)	2-7-8	1

8 ILLUSTRATION OF MECH ASSEMBLY BLOCK



8) MECH ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
		PINCH ROLLER PLUNGER BLOCK		
8-1x	BZ637918	Pinch Roller Plunger Block Comp.	TE	1
8-2	ML300809	Pinch Roller Arm w/shaft		1
8-3	MZ580781	Pinch Roller Arm Joint, w/pin	TD-2079	1
8-4	ZW345442	Washer (Nylon) D4.2x9x1t		1
8-5x	MH533913	Connecting Pin	TW-2010	1
8-6x	ZW270088	'E' Ring 1.9M	6-1-9	2
8-7	MZ802980	Spring Holder	RD-276	2
8-8	ZG428927	Pinch Roller Cramp Spring B	KD-1032	1
8-9	EP573658	Plunger Solenoid 1660THT-3	44-1-66	1
8-10	MZ581275	PR Plunger Bracket	TD-1061	1
8-11	ZS323728	Screw, binding head 3x5		2
8-12	MS582153	Pinch Roller Shaft	TD-1033	1
8-13	ZW416698	Nut M4		6
		PAUSE SWITCH BLOCK		
8-14	BS637920	Pause Switch Block Comp.	TE	1
8-15	ES389700	Micro SW. SS-5	25-1-19	2
8-16	MZ605283	SW. Actuator	CW-1060	1
		OPERATION BLOCK		
8-17x	BZ637953	Operation Block Comp.	TE	1
8-18	MZ640675	Operation Bracket	TE-2023	1
8-19	ML630887	Operation Lever	MY-2202	5
8-20	ZG456120	Setting Lever Spring	CS-1187	5
8-21	MZ640383	Operation Holder	TE-2025	1
8-22x	ZS325495	Tapping Screw #2 3x6		6
8-23x	EZ640686	P.C Board Support A	TE-2024	1
8-24x	EZ640372	P.C Board Support B	TE-2024	1
8-25x	ZS609298	Screw, flat fillister head 3x6		5
8-26x	ZW273802	Toothed Lock Washer M3		5
8-27	ZW516611	Nut M3		13
8-28x	SB643500	Button A	TE-2017	1
8-29	SB643577	Button B	TE-2017	2
8-30x	SB640732	Button C	TE-2017	1
8-31x	SB640743	Button D	TE-2017	1
		LEVER SWITCH BLOCK		
8-32	BS637997	Lever Switch Block Comp.	TE	1
8-33x	BS660227	Lever Switch Block Comp. (CEE)	TE	1
8-34x	BS660238	Lever Seitch Block Comp. (CSA)	TE	1
8-35x	BS660240	Lever Switch Block Comp. (JPN)	TE	1
8-36	MZ643522	SW. Plate	TE-2019	1
8-37	ES563387	Leaf SW. BSW-1A	25-10-19	1
8-38	ES479496	Slide SW. S-2	25-3-67	1
8-39x	ES661860	Slide SW. JE1 (CEE)	25-3-63	1
8-40	ES422436	Slide SW. SL-222B4C	25-3-40	1
8-41	ES479485	Slide SW. S-1	25-3-66	1
8-42x	ES642677	Slide SW. JE08 (CEE)	25-3-116	1
8-43x	ES641068	Slide SW. JE06 (CSA,JPN)	25-3-114	1
		MECH. ASSEMBLY BLOCK		
8-44x	ML581883	Shifter Stopper	TD-1002	2
8-45	MZ810191	Cushion Rubber, RD	RD-278	1
8-46x	MH581894	Head Base Prop	TD-1003	3
8-47x	ZS413201	Screw, pan head 4x8		3
8-48	MB606712	Stopper Rubber KJ	KJ-2060	1
8-49x	MH581940	Shifter Lever Post A	TD-1008	1
8-50x	MH581927	Shifter Guide Post	TD-1006	3
8-51x	MH581951	Spring Lever Post	TD-1010	1
8-52x	MH581962	Shifter Lever Post B	TD-1011	1
8-53x	MH581973	Brake Lever Post A	TD-1012	1
8-54x	MH581984	Brake Lever Post B	TD-1013	1
8-55x	MH580691	Actuator Prop	TD-2069	1
8-56x	MH640350	Shifter Lock Arm Prop	TE-1003	1
8-57x	MH642565	Prop	TE-1002	3
8-58	ZS379350	ISO Screw, pan head 3x6		11
8-59x	MS397001	Pinch Roller Arm Shaft	KD-1002	1
8-60x	ZW664841	Washer D8.1x13x0.3t		1
8-61x	ZW413278	Nut M5		1
8-62	MC638684	Counter MP490-23	9-1-43	1
8-63x	MZ643443	Counter Base	TE-2011	1
8-64	MZ582030	Spring Hanger	TD-1018	2
8-65	ML580127	Middle Pulley Base	TD-1050	1
8-66x	MS580116	Middle Pulley Shaft	TD-1049	1
8-67	ZW259773	Washer (Nylon) D4.1x7x0.5t		1
8-68	MR580105	Middle Pulley, w/metal	TD-1048	1
8-69	ZW259738	Washer (Polyslider) D4.1x7x0.25t		1
8-70	ZW290283	'U' Ring 2.85M	6-1-1	7
8-71	MB580138	Counter Belt D73x1.5	TD-1051	1
8-72x	ES250064	Micro SW. V-1A44 U/L	25-1-7	1
8-73x	MZ402377	Micro Insulator D	KD-2050	1
8-74x	ZS483502	Screw, pan head 3x13		2
8-75	MZ636985	Shifter Plate, w/pin B	TD-1028	1
8-76	ZW580173	Guide Washer	TD-1055	3
8-77	ZW420682	Washer (Nylon) D4.2x9x0.5t		3
8-78	ZG582131	Shifter Spring	TD-1030	1
8-79	ZS243516	Screw, pinch roller	XR-140	1
8-80	ZG580770	Pinch Roller Spring	TD-2078	1
8-81	ML646198	Shifter Lever, w/pin	TE-1006	1
8-82	ML582096	Shifter Lever B	TD-1025	1
8-83	ML643847	Spring Lever	TE-1005	1
8-84	MZ582120	Connecting Bar	TD-1029	1
8-85	MZ643454	Shifter Lock Arm A	TE-2012	1
8-86	ZW403200	Washer (SPC) D6.2x13x1t		1
8-87	MZ643465	Shifter Lock Arm B, w/prop	TE-2013	1
8-88	MZ580061	Shifter Rock Collar	TD-1044	1
8-89	ZW270088	'E' Ring 1.9M	6-1-9	1
8-90	ZW270123	'E' Ring 4M	6-1-9	1
8-91	ZG315011	Brake Lever Spring	MR-116	1
8-92	MB527556	Counter Belt D93x1.5	ND-1022	1
8-93x	ZG540090	Brake Lever Spring	TW-1058	2
8-94	MP582164	Pinch Roller D=42	TD-1034	1
8-95	ZW430402	Washer (Nylon) D6.2x10x0.5t		1
8-96	ZW648685	Washer D6.2x10x0.1t		2
8-97	ZS533766	Pinch Roller Screw	TW-1042	1
8-98	ZS422076	Screw, pan head 3x5		2
8-99	ZS417216	Screw, pan head 3x4		2
8-100	SK638976	Knob 1-C	CP-5018	4

9) P.B P.C BOARD (MY-5017) BLOCK

Symbol No.	Parts No.	Description	Q'ty
9-1	BA622732	P.B P.C Board Comp. (MY-5017)	1
9-TR1to4	ET234854	Transistor 2SC458LG(C)	8
9-TR5,6	ET639437	Transistor 2SC945L(Q)(P)	4
9-D1	ED570475	Zener Diode WZ-075	2
9-D2	ED219464	Germanium Diode 1N34A	2
9-L1	EO496361	Inductor 6070GE 23MH(J)	2
9-T1	BT517274	Headphone Trans. N16-535S	2
9-VR1	EV464220	Semi-fixed/Vol. V8K4-1 50 kB	2
9-VR2	EV622056	Co-axial 2-throw Vol. V24L5GPHN B10kx2	1
9-VR3	EV464196	Semi-fixed/Vol. V8K4-1 2 kB	2
		Capacitor, Vertical Type	
9-C1	EC220678	Elect. 47μF 25WV	2
9-C2	EC432810	Elect. 10μF 16WV NL	2
9-C3	EC290520	VFM 100PF(J) 50WV	2
9-C4	EC467133	VFM 68PF(J) 50WV	2
9-C5	EC290520	VFM 100PF(J) 50WV	2
9-C6	EC329771	Elect. 47μF 6.3WV	2
9-C7	EC320051	Elect. 10μF 16WV	2
9-C8	EC389485	Mylar 0.018μF(J) 50WV	2
9-C9,10	EC250683	Mylar 0.0022μF(J) 50WV	4
9-C11	EC220678	Elect. 47μF 25WV	2
9-C12	EC329850	VFM 220PF(J) 50WV	2
9-C13	EC432810	Elect. 10μF 16WV NL	2
9-C14	EC329771	Elect. 47μF 6.3WV	2
9-C15	EC399565	FM 22PF(J) 50WV	2
9-C16	EC290520	VFM 100PF(J) 50WV	2
9-C17	EC320051	Elect. 10μF 16WV	2
9-C18	EC220364	Elect. 100μF6.3WV	2
9-C19	EC450055	Elect. 1μF 25WV	2
9-C20	EC320051	Elect. 10μF 16WV	2
9-C21	EC450527	Elect. 4.7μF 25WV	2
9-C22	EC329771	Elect. 47μF 6.3WV	2

Carbon Resistor Omitted

10) REC, OSC P.C BOARD(MY-5016)BLOCK

Symbol No.	Parts No.	Description	Q'ty
10-1	BA647684	Rec., Osc. P.C Board Comp. (MY-5016)	1
10-2	BA647842	Rec., Osc. P.C Board Comp. (MY-5016)(DB)	1
10-TR1,2	ET234854	Transistor 2SC458LG(C)	4
10-TR3,4	ET234854	Transistor 2SC458LG(C)	4
10-TR5,6,7	ET639437	Transistor 2SC945L(Q)(P)	4
10-L1	EO321254	Ferri Inductor FL7H 5.6MH(J)	2
10-L2	EO383365	OSC. Coil OT-204	1
10-VR1	EV622078	Double Vol. V24L5DPHN A50kx2	2
10-VR2	EV520806	Semi-fixed/Vol. V8K4-1 10 kB	2
10-R39	ER515070	Metal Oxide Film/R. 2W 150 ohm(K)	1
10-R40	ER426892	Solid/R. RC1/2 2.4k(J)	1
		Capacitor, Vertical Type	
10-C1	EC290520	VFM 100PF(J) 50WV	2
10-C2	EC220678	Elect. 47μF 25WV	2
10-C3	EC432810	Elect. 10μF 16WV NL	2
10-C4	EC290520	VFM 100PF(J) 50WV	2
10-C5	EC220364	Elect. 100μF 6.3WV	2
10-C6,7	EC399565	FM 22PF(J) 50WV	4
10-C8	EC320051	Elect. 10μF 16WV	2
10-C9	EC329771	Elect. 47μF 6.3WV	2
10-C10	EC377212	VFM 47PF(J) 50WV	2
10-C11	EC320051	Elect. 10μF 16WV	2
10-C12	EC220678	Elect. 47μF 25WV	2
10-C13	EC329771	Elect. 47μF 6.3WV	2
10-C14	EC399565	FM 22PF(J) 50WV	2
10-C15	EC290520	VFM 100PF(J) 50WV	2
10-C16	EC438041	Mylar 0.082μF(J) 50WV	2
10-C17	EC320051	Elect. 10μF 16WV	2
10-C18	EC329771	Elect. 47μF 6.3WV	2
10-C19	EC368357	Mylar 0.056μF(J) 50WV	2
10-C20	EC220151	Elect. 100μF 25WV	2
10-C21	EC320051	Elect. 10μF 16WV	2
10-C22	EC220994	Elect. 10μF 25WV	2
10-C23	EC405898	Styrol 470PF(J) 50WV	2
10-C24	EC250841	Mylor 0.01μF(J) 50WV	2
10-C25	EC558202	Trimmer TM-80A 80PF	2
10-C26	EC558235	Styrol 1800PF(J) 250WV	1
10-C27,28	EC250975	Mylar 0.015μF(J) 50WV	2
10-C29	EC220612	Elect. 33μF 25WV	1

Carbon Resistor Omitted

11) DOLBY P.C BOARD (TD-5301) BLOCK

Symbol No.	Parts No.	Description	Q'ty
11-1	BA588003	Dolby P.C Board Comp. (TD-5301)	1
11-TR1	ET234854	Transistor 2SC458LG(C)	2
11-TR2	ET329218	Transistor 2SC458(C)	2
11-TR3	ET352146	Transistor 2SC458LG(D)	2
11-TR4	ET329218	Transistor 2SC458(C)	2
11-TR5	ET491051	FET 2SK30A(GR)	2
11-TR6	ET234854	Transistor 2SC458LG(C)	2
11-TR7	ET350335	Transistor 2SA564(Q)	2
11-TR8	ET329218	Transistor 2SC458(C)	2
11-D1	ED219464	Germanium Diode 1N34A	2
11-D2	ED491130	Zener Diode WZ-083	2
11-D3,4	ED560913	Silicon Diode 1S2473 VE	4
11-D5	ED219464	Germanium Diode 1N34A	2
11-D6	ED560913	Silicon Diode 1S2473 VE	2
11-VR1	EV478686	Semi-fixed/Vol. V8K4-1 1 kB	2
11-BR2	EV464207	Semi-fixed/Vol. V8K4-1 5 kB	2
11-L1	EO496350	Inductor 146LY 36 MH(J)	2
11-2	EJ363126	P.C Board Terminal	2
		Capacitor, Vertical Type	
11-C1	EC320051	Elect. 10μF 16WV	2
11-C2	EC350875	Mylar 0.001μF(J) 50WV	2
11-C3	EC336194	VFM 270PF(J) 50WV	2
11-C4,5	EC320051	Elect. 10μF 16WV	4
11-C6	EC320051	Elect. 10μF 16WV	2
11-C7	EC313121	Elect. 220μF 25WV	2
11-C8	EC329883	Mylar 0.0056μF(J) 50WV	2
11-C9	EC329861	Mylar 0.027μF(J) 50WV	2
11-C10	EC337500	Mylar 0.0047μF(J) 50WV	2
11-C11	EC320051	Elect. 10μF 16WV	2
11-C12	EC379170	Mylar 0.1μF(J) 50WV	2
11-C13	EC320040	Elect. 47μF 16WV	2
11-C14	EC290520	VFM 100PF(J) 50WV	2
11-C15	EC320051	Elect. 10μF 16WV	2
11-C16	EC379170	Mylar 0.1μF(J) 50WV	2
11-C17	EC320051	Elect. 10μF 16WV	2
11-C18	EC379170	Mylar 0.1μF(J) 50WV	2
11-C19	EC379170	Mylar 0.1μF(J) 50WV	2
11-C20	EC395504	Mylar 0.33μF(K) 50WV	2

Carbon Resistor Omitted

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12) SRT P.C BOARD (TD-5201) BLOCK

Symbol No.	Parts No.	Description	Q'ty
12-1	BA647796	SRT P.C Board Comp. (TD-5201)	1
12-2	BA647763	SRT P.C Board Comp. (TD-5201)(DB)	1
12-SW1	ES550001	Push SW. 1FS-6U-49	1
12-L1	EO369178	Ferri Inductor FL7H 1.5 MH(J)	2
12-VR1,2	EV520806	Semi-fixed/Vol. V8K4-1 10 kB (DB)	4
		Capacitor, Vertical Type	
12-C1	EC329861	Mylar 0.027μF(J) 50WV	2
12-C2	EC379214	Mylar 0.047μF(J) 50WV	2
12-C3	EC368335	Mylar 0.022μF(J) 50WV	2
12-C4	EC379214	Mylar 0.047μF(J) 50WV	2
12-C5	EC379192	Mylar 0.039μF(J) 50WV	2

Carbon Resistor Omitted

13) SYS. CON P.C BOARD (TE-2001) BLOCK

Symbol No.	Parts No.	Description	Q'ty
13-1	BA637964	Sys. Con. P.C Board Comp. (TE-2001)	1
13-TR1	ET639437	Transistor 2SC945L(Q)(P)	1
13-TR2,3	ET511920	Transistor 2SC1247A(B)(V)	2
13-TR4to6	ET639437	Transistor 2SC945L(Q)(P)	3
13-TR7	ET399881	Transistor 2SC711(F)	1
13-TR8to11	ET639437	Transistor 2SC945L(Q)(P)	4
13-D1to3	ED560913	Silicon Diode 1S2473 VE	3
13-D4	ED494583	Silicon Diode 10D05	1
13-D5to10	ED560913	Silicon Diode 1S2473 VE	6
13-D11	ED498150	Zener Diode WZ-192	1
13-D12,13	ED560913	Silicon Diode 1S2473 VE	2
13-D14to29	ED624903	Silicon Diode 1S2473	16
		Capacitor, Vertical Type	
13-C1	EC459505	Mylar 0.039μF(K) 50WV	1
13-C2	EC350684	Elect. 22μF 25WV	1
13-C3	EC362158	Mylar 0.0047μF(K) 50WV	1
13-C4	EC350684	Elect. 22μF 25WV	1
13-C5	EC220612	Elect. 33μF 25WV	1
13-C6	EC350684	Elect. 22μF 25WV	1
13-C7	EC251087	Mylar 0.022μF(K) 50WV	1
13-C8	EC368256	Elect. 0.47μF 25WV	1

Carbon Resistor Omitted

14) SERVO P.C BOARD (MY-2036) BLOCK

Symbol No.	Parts No.	Description	Q'ty
14-1	BA657167	Servo P.C Board Comp. (MY-2036)	1
14-TR1,2	ET639437	Transistor 2SC945(P)(Q)	2
14-TR3,4	ET399846	Transistor 2SC945(Q)	2
14-TR5	ET538154	Transistor 2SA564(Q)(R)	1
14-TR6	ET399846	Transistor 2SC945(Q)	1
14-TR7	ET623867	Transistor 2SD361(D1)(D2)	1
14-TR8	ET639437	Transistor 2SC945(P)(Q)	1
14-D1	ED557447	Silicon Diode 1S1588	1
14-D2to5	ED224548	Silicon Diode 10D2	4
14-TH1	ED593357	Thermister 34D21	1
14-VR1	EV621955	Semi-fixed/Vol. V10K8-1-5 B10K	1
14-VR2	EV621966	Semi-fixed/Vol. V10K8-1-5 B30K	1
14-2	ZS421806	Screw, pan head 3x8	1
14-3	ZW273756	Nut M3	1
14-4	EZ615047	Heat-sink Plate A	1
14-5	ZS422076	Screw, pan head 3x5	6
14-6	EZ615060	P.C Board Holder B	1
14-7	EZ615071	P.C Board Holder C	1
14-R20	ER593346	Cement/R. 2W 330 ohm(K) (Wire-wound Type)	1
		Capacitor, Vertical Type	
14-C1	EC251291	Mylar 0.1μF(K) 50WV	1
14-C2	EC251122	Mylar 0.027μF(K) 50WV	1
14-C3	EC250582	Mylar 0.0033μF(K) 50WV	1
14-C4	EC331828	Elect. 3.3μF 25WV	1
14-C5	EC251122	Mylar 0.027μF(K) 50WV	1
14-C6	EC250582	Mylar 0.0033μF(K) 50WV	1
14-C7	EC311793	Mylar 0.012μF(J) 50WV	1
14-C8	EC557166	Solid Aluminum 3.3μF 25WV	1
14-C9	EC450055	Elect. 1μF 25WV	1
14-C10	EC320051	Elect. 10μF 16WV	1
14-C11	EC220151	Elect. 100μF 25WV	1
14-C12	EC250885	Mylar 0.01μF(K) 50WV	1
14-C13	EC346735	Elect. 47μF 50WV	1

Carbon Resistor Omitted

15) RELAY P.C BOARD (TE-2002) BLOCK

Symbol No.	Parts No.	Description	Q'ty
15-1	BA638021	Relay P.C Board Comp. (TE-2002)	1
15-TR1	ET537300	Transistor 2SD361(D)(E)	1
15-TR2	ET511920	Transistor 2SC1247A(B)(V)	1
15-TR3	ET639437	Transistor 2SC945L(Q)(P)	1
15-TR4	ET517353	Transistor 2SC711(E)(G)	1
15-D1to5	ED570273	Silicon Diode 1N4004	5
15-D6to9	ED511097	Silicon Diode 1N4001	4
15-D10	ED357794	Zener Diode RD-5A(M)	1
15-D11,12	ED560913	Silicon Diode 1S2473 VE	2
15-D13to16	ED624903	Silicon Diode 1S2473	4
15-D17,18	ED560913	Silicon Diode 1S2473 VE	2
15-CR1to10	ER450786	Spark Quencher U/L 0.1μ+120 ohm 400WV	10
15-VR1	EV498071	Semi-fixed/Vol. V10K8-1-5 1 kB	1
15-RL1	EP616500	Relay LC1-C-JT DC24V	1
15-RL2	EP638763	Relay MY4-0-US DC24V	1
15-RL3	EP616500	Relay LC1-C-JT DC24V	1
15-RL4	EP638763	Relay MY4-0-US DC24V	1
15-2	EZ640462	Relay P.C Board Retaining Part	1
15-3	ZS325495	Tapping Screw #2 3x6	6
15-4	EZ640642	Relay P.C Board Retaining Part B	1
15-5	ZS421806	Screw, pan head 3x8	1
15-6	ZW516993	Nut M3	1
15-R1	ER535948	Cement/R. 5W 10 ohm(K) (Wire-wound Type)	1
15-R3	ER563354	Cement/R. 15W 430 ohm(K) (Metal OX. Film Type)	1
15-R4	ER641261	Cement/R. 20W 43 ohm(K) (Wire-wound Type)	1
15-R5	ER573524	Cement/R. 10W 150 ohm(K) (Wire-wound Type)	1
15-R20	ER372082	Cement/R. 2W 100 ohm(K) (Wire-wound Type)	1
		Capacitor, Vertical Type	
15-C1,2	EC350987	MP/C. 0.47μF(M) 250V DC (Tub. Type)	2
15-C3	EC565345	Elect. 1000μF 50WV	1
15-C4	EC372148	Elect. 220μF 35WV	1
15-C5	EC250918	Mylar 0.01μF(M) 50WV	1
15-C6	EC313121	Elect. 220μF 25WV	1
15-C7	EC331705	Elect. 22μF 16WV	1
15-C8,9	EC220678	Elect. 47μF 25WV	2
15-C10	EC646031	Elect. 4.7μF 160WV (Tub. Type)	1

Carbon Resistor Omitted

16) REC MODE P.C BOARD(TE-5003)BLOCK

Symbol No.	Parts No.	Description	Q'ty
16-1	BZ647831	Rec. Mode P.C Board Comp. (TE-5003)	1
16-D1	ED624903	Silicon Diode 1S2473	1
16-SW3	ES640541	Push SW. 2FT-0014FF1320	1
16-RL1	EP383321	Relay TECK-36 DC22V 1000 ohm	1
16L1,2	EO390622	Ferri Inductor FL9H 220μH(K)	2
16-2	EZ640451	SW. Shield	1
16-3	ZS379350	ISO Screw, pan head 3x6	1
16-4	ZW516611	Nut M3	1
16-5	ZW273802	Toothed Lock Washer M3	1

17) SPEED SWITCH P.C BOARD (TE-5001) BLOCK

Symbol No.	Parts No.	Description	Q'ty
17-1	BA647717	Speed Switch P.C Board Comp. (TE-5001)	1
17-SW2	ES640552	Slide SW. SSA06207	1
17-L1	EO379923	Ferri Inductor FL7H 8.2 MH(J)	2
17-2	MZ640618	Equalizer Bracket	1
17-3	ZS432843	Screw, pan head 2.6x4	2
17-C1	EC250841	Mylar/C. 0.01μF(J) 50WV (Vert. Type)	2

Carbon Resistor Omitted

2. GX-630D/DB

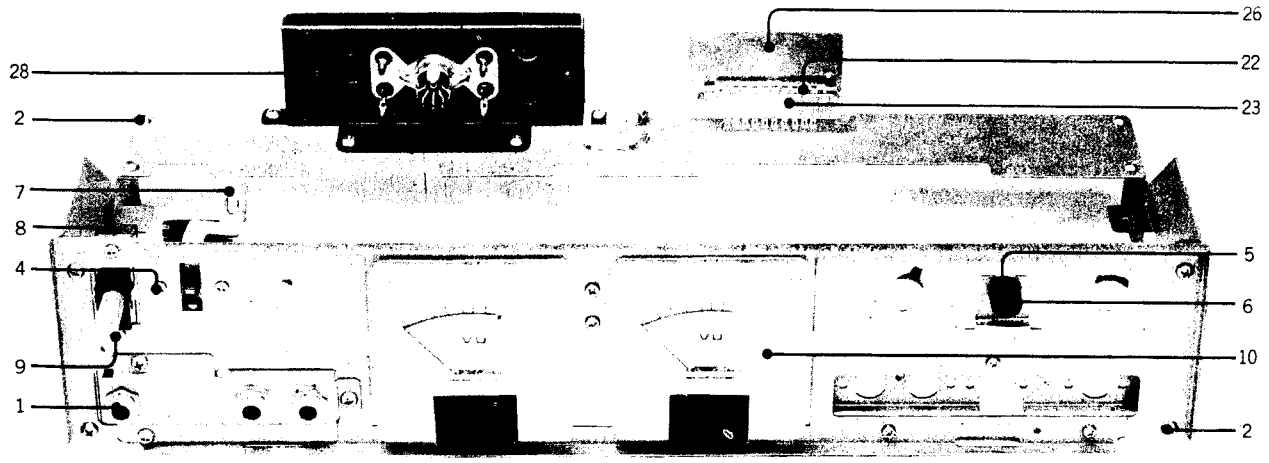
Name and parts number of Speed Switch P.C Board changed as follows:

Speed Switch P.C Board Comp. TE-5001 BA647717

changed to

Speed Switch Block Comp. TE-5001 BS647717

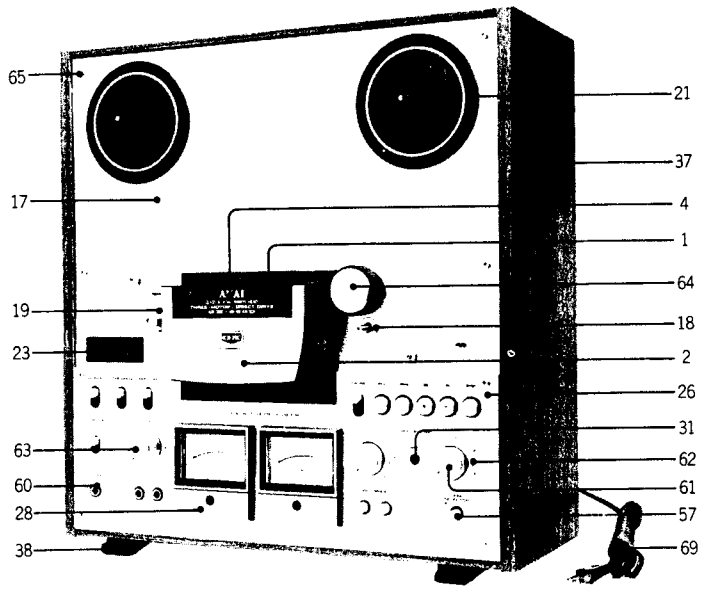
18 PHOTO OF AMP ASSEMBLY BLOCK



18) AMP ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
		FRONT CHASSIS BLOCK		
18-1	EJ655830	3-throw Jack C	31-2-69	1
18-2	ZS325495	Tapping Screw #2 3x6		12
18-3x	MZ640405	SW. Retaining Plate	TE-5007	1
18-4	ZS422076	Screw, pan head 3x5		2
18-5	EZ586326	Lamp Holder	LF-5324	1
18-6	EL639472	Lamp 24V 35MA(190M/Mx2) (Read Type)	28-2-24	1
18-7	MZ640945	Connecting Plate B	TE-5009	1
18-8	ES641283	Lever SW. S-J6399	25-12-21	1
18-9	ZS379350	ISO Screw, pan head 3x6		4
18-10	EM573748	VU Meter KL-280B-28 (Yellow)	46-1-86	2
18-11x	MZ659632	Meter Mask	TE-5027	2
18-12x	ZG290878	VU Meter Spring	DX-504	4
18-13x	ZW516611	Nut M3		4
18-14x	EZ640620	P.C Board Holder	TE-5011	1
18-15x	ES573671	Push SW. 1FST-6U-122-3 (DB)	25-5-119	1
18-16x	ZS422076	Screw, pan head 3x5 (DB)		2
18-17x	EA640438	Dolby Lamp P.C Board (DB)	TE-5004	1
18-18x	EL619064	Lamp 24V 35MA (DB)	28-2-40	1
18-19x	ZS325495	Tapping Scres #2 3x6		1
		REAR CHASSIS BLOCK		
18-20x	MZ640574	Amp. Side Plate A	TE-5012	1
18-21x	MZ640585	Amp. Side Plate B	TE-5012	1
18-22	EJ292961	Multi-jack 10P 500-010-005	31-4-4	1
18-23	EZ530021	Jack Nut Plate	ND-5052	1
18-24x	ZS462947	Screw, pan head 2.3x12		2
18-25x	ZW273881	Earth Lug M4		1
18-26	EZ655942	MJJack Shield	TE-5017	1
		JACK PLATE BLOCK		
18-27x	BJ647728	Jack Plate Block Comp.		1
18-28	EJ624104	Jack Plate J-2	31-5-121	1
18-29x	EA628222	P.C Board for Jack	LE-5622	1
18-30x	ER440921	Carbon/R. RD1/4 27k(J) (Insu. Type)	35-9-5	2
18-31x	ER214290	Carbon/R. RD1/4 4.7k(J) (Insu. Type)	35-9-5	2
18-32x	ER345677	Carbon/R. RD1/4 15k(J) (Insu. Type)	35-9-5	2
18-33x	ER324685	Carbon/R. RD1/4 33k(J)	35-9-5	2
		AMP ASSEMBLY BLOCK		
18-34x	EJ639112	9P Plug Housing 103-3-9P	42-1-85	1
18-35x	EJ514607	Wire Clip 220-JD485210-01 (Nylon)	2-7-18	2
18-36x	EJ510333	Wire Clip 220-JD481610-0104 (Nylon)	2-7-17	3
18-37x	MT553948	Wire Band B	2-35-3	4
18-38x	MZ640440	Jack Plate Holder	TE-5014	1

19 PHOTO OF FINAL ASSEMBLY BLOCK



19) FINAL ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
		HEAD COVER TABLE BLOCK		
19-1	SC640991	Head Cover Base	TE-6007	1
19-2	SC643724	Head Cover	TY-6004	1
19-3x	SZ534543	Cushion Rubber C	TW-6039	2
19-4	SM640956	Model Name Plate GX-630D	TE-6005	1
19-5x	SM640967	Model Name Plate GX-630DB (DB)	TE-6005	1
19-6x	MZ640800	Hinge Bracket	TE-6006	1
19-7x	MZ598263	Hinge Angel	KJ-6017	1
19-8x	MV269965	Steel Ball D4		1
19-9x	ZG249107	Ball Retaining Spring	RD-632	1
19-10x	ZW499593	Set Screw, hexagon socket 5x4 (Flat Point)		1
19-11x	MS597431	Hinge Shaft	KJ-6015	1
19-12x	SZ597420	Collar	KJ-6014	1
19-13x	ZW420682	Washer (Nylon) D4.2x9x0.5t		1
19-14x	ZW270101	'E' Ring 3M	6-1-9	2
19-15x	ZS323728	Screw, binding head 3x5		4
		MECH. PANEL BLOCK		
19-16x	BZ647662	Mech. Panel Block Comp.	TE	1
19-17	SP641237	Mech. Panel	TE-6001	1
19-18	SE640754	Motor Escutcheon A	TE-6002	1
19-19	MZ640787	Impedanse Roller Collar	TE-6003	1
19-20x	MZ640798	Arm Collar	TE-6004	2
19-21	SE581602	Reel Table Escutcheon 2	TD-6021	2
19-22x	ZW575730	Speed Nut (P Type) 3	6-3-6	8
19-23	SE626951	Counter Escutcheon	MY-6006	1
		AMP. PANEL BLOCK		
19-24x	BZ647730	Amp. Panel Block Comp.	TE	1
19-25x	BZ647741	Amp. Panel Block Comp. (DB)	TE	1
19-26	SP641002	Amp. Panel	TE-6008	1
19-27x	SP641013	Amp. Panel (DB)	TE-6008	1
19-28	SE631102	VU Escutcheon	MY-6205	2
19-29x	ZS575392	Screw, pan head 2.6x8		8
19-30x	ZW318014	Washer (BSP) D2.6x4.5x0.4t		8
19-31	SE612055	Lamp Lens A (Red)	CH-6314	1
19-32x	SE639696	Lamp Lens B-2 (DB)	NE-6005	1
19-33x	SE613888	Button Escutcheon A (DB)	CW-6021	4
19-34x	SE613866	Button Escutcheon C	CW-6016	5
19-35x	TC494267	Lamp Cover(DB)	CG-2206	1

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
		CASE BLOCK		
19-36x	BC647673	Case Block Comp.	TE	1
19-37	BC640978	Wood Case	TE-6021	1
19-38	SA640934	Square Foot, w/rubber	TE-6020	2
19-39x	ZS200610	Tapping Screw #1 4x12 (Truss)		4
19-40x	SZ480712	Dust Cover Pin	LE-6004	2
		FINAL ASSEMBLY BLLCK		
19-41x	SP641024	Lower Side Plate A	TE-6013	1
19-42x	SP641035	Lower Side Plate B	TE-6013	1
19-43x	ZS325495	Tapping Screw #2 3x6		30
19-44x	SP641046	Upper Side Plate A	TE-6014	1
19-45x	SP641057	Upper Side Plate B	TE-6014	1
19-46x	MZ640877	Supporting Plate	TE-6015	2
19-47x	ZS417150	Screw, pan head 4x6		8
19-48x	SZ529920	Reinforcement Angle A	ND-6003	1
19-49x	ZS432674	Screw, pan head 3x3		1
19-50x	SA428714	LM Rubber Foot, w/screw	LM-401	4
19-51x	ZW324281	Screw, pan head 4x25		4
19-52x	ZW419646	Washer (SPC) D4.5x9.8x0.5t		4
19-53x	ZS665550	Screw, pan head 4x15, w/washer		2
19-54x	ZS664345	Screw, pan head 4x30 w/washer		4
19-55x	EZ640980	Amp. Shield	TE-6013	1
19-56	SK638976	Knob 1-C	CP-5013	4
19-57	SK634410	Push Button Knob J	91-5051	3
19-58x	EF563681	Fuse 1A250V	39-1-50	1
19-59x	ZS411660	Screw, oval countersunk head 3x6		2
19-60	EZ436217	Collar For Jack	MC-5006	3
19-61	SK640912	Double Knob (Upper)	TE-6011	2
19-62	SK640923	Double Knob (Lower)	TE-6012	2
19-63	SK640901	Single Knob	TE-6010	1
19-64	SK645300	Pinch Roller Cap	TD-6003	1
19-65	ZS613901	Panel Screw	CW-6021	8
19-66x	ZS312221	Screw, truss head 3x15 (Black)		4
19-67x	SE627120	Ventilater	MY-6011	1
19-68x	ZS392141	Tapping Screw #1 3x8 (Truss)		2
19-69	EW374894	AC Cord 3M	26-3-11	1
19-70x	EW516600	AC Cord VM-0065 (CEE)	26-3-21	1
19-71x	EW524845	AC Cord 2.5M (JPN)	26-3-31	1

20 LIST OF INTERCHANGEABLE SEMICONDUCTORS

As far as service in concerned, in case the original parts cannot be obtained, the interchangeable parts listed below can be substituted.

Original Parts			Interchangeable Parts	
Description	Parts No.	Utilizing P.C Board	Description	Parts No.
2SA564 (Q)	ET350335	MY-2036 TD-5301	2SA733 (Q),(R) 2SA628 (D),(E) 2SA640 (E),(F)	ET538378 ET538110 ET623790
2SC458 (C)	ET329218	TD-5301	2SC458LG (C) 2SC693U (F)	ET234854 ET315472
2SC458LG (C)	ET234854	MY-5016 MY-5017 TD-5301	2SC693U (F) 2SC1312R (G),(H) 2SC1312S (G),(H)	ET315472 ET610413 ET603257
2SC711 (F),(G)	ET398777	TE-2001 TE-2002	2SC536 (E),(F) 2SC945 (E),(F)	ET370607 ET398711
2SC945L (Q),(P)	ET639437	MY-2036 MY-5016 MY-5017 TE-2001 TE-2002	2SC711 (E),(F) 2SC1647 (R)(S)(E) 2SC1641 (R)(S)(E)	ET453486 ET623733 ET603843
2SC1247A (B),(V)	ET511920	TE-2001 TE-2002	2SC1211 (D),(E)	ET511694
2SD361 (D),(E)	ET537000	TE-2002	2SD361 (D1),(D2) 2SC1061 (B),(C) 2SC1449 (K)(L)(H)	ET623867 ET375603 ET635815
TIP47	ET621775		TIP48	ET621786
1N34A	ED219464	MY-5017	1N60	ED428264
1N4001	ED511097	TE-2002	10D05	ED494583
1S1588	ED557447	MY-2036	1S2473 WG599 1S2473VE	ED624903 ED514721 ED560913
1S2473	ED624903	TD-5301	1S1588	ED557447
1S2473VE	ED560913	TE-2001 TE-2002	WG599 WG713	ED514721 ED515790

INDEX

Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.
BA588003	11-1	EC320051	10-C11	ED560913	11-D3,4	ES624677	8-42x	MC638684	8-62
BA622732	9-1	EC320051	10-C17	ED560913	11-D6	ES661860	8-39x	MH244710	6-6
BA637964	13-1	EC320051	10-C21	ED560913	13-D1to3	ET234854	9-TH1to4	MH257477	5-7
BA638021	15-1	EC320051	11-C1	ED560913	13-D5to10	ET234854	10-TR1,2	MH529233	1-11
BA647684	10-1	EC320051	11-C4,5	ED560913	13-D12,13	ET234854	10-TR3,4	MH533913	8-5x
BA647717	17-1	EC320051	11-C6	ED560913	15-D11,12	ET234854	11-TR1	MH578957	1-6
BA647763	12-2	EC320051	11-C11	ED560913	15-D17,18	ET234854	11-TR6	MH580588	6-7
BA647842	10-2	EC320051	11-C15	ED570273	5-4x	ET329218	11-TR2	MH580691	8-55x
BA647796	12-1	EC320051	11-C17	ED570273	15-D1to5	ET329218	11-TR4	MH581894	8-46x
BA651667	14-1	EC320051	14-C10	ED570475	9-D1	ET329218	11-TR8	MH581927	8-50x
BC640978	19-37	EC329771	9-C6	ED593357	14-TH1	ET350335	11-TR7	MH581940	8-49x
BC647673	19-36x	EC329771	9-C14	ED624903	13-D14to29	ET352146	11-TR3	MH581951	8-51x
BH638008	1-1x	EC329771	9-C22	ED624903	15-D13to16	ET399846	14-TR3,4	MH581962	8-52x
BI637931	4-1x	EC329771	10-C9	ED624903	16-D1	ET399846	14-TR6	MH581973	8-53x
BJ647728	18-27x	EC329771	10-C13	EF487427	7-18x	ET399881	13-TR7	MH581984	8-54x
BM587518	3-1	EC329771	10-C18	EF511637	7-19x	ET491051	11-TR5	MH640350	8-56x
BM637975	2-1x	EC329850	9-C12	EF563681	19-58x	ET511920	13-TR2,3	MH642565	8-57x
BR587542	3-6x	EC329861	11-C9	EF588420	7-20x	ET511920	15-TR2	MI597183	4-18
BR587553	3-7x	EC329861	12-C1	EF623103	7-17x	ET517353	15-TR4	ML396933	8-2
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BS660240	8-35x	EC337500	11-C10	EJ292961	18-22	ET639437	9-TR5,6	ML580555	6-10
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BT640517	7-1	EC350684	13-C2	EJ363126	11-2	ET639437	13-TR1	ML581883	8-44x
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BZ637936	5-1x	EC368335	12-C3	EJ654221	7-26x	EV464207	11-VR2	ML643847	8-83
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EA640438	18-17x	EC379170	11-C19	EO379923	17-L1	EV621966	14-VR2	MS580116	8-66x
EA642701	7-22x	EC379192	12-C5	EO383365	10-L2	EV622056	9-VR2	MS582153	8-12
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EC220151	14-C11	EC379214	12-C4	EO496350	11-L1	EW374894	19-69	MS597655	2-10
EC220364	9-C18	EC389485	9-C8	EO496361	9-L1	EW516600	19-70x	MS643397	4-10
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EC220678	9-C1	EC399565	10-C14	EP616500	15-RL3	EZ530021	18-23	MT436860	3-10
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GX-630D

LEFT

REC MODE P.C BOARD
TE-5003

SRT P.C BOARD TD-5201

REC AMP P.C BOARD MY-5016(3ED)

PB AMP P.C BOARD
MY-5017 (2ED)

RIGHT

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN Ω 1/4W(J)
ALL CAPACITORS IN μF 50WV(J)

GX-630D
SCHEMATIC DIAGRAM
NO. 5-1 1501636A

GX-630DB

GX-630DB SCHEMATIC DIAGRAM NO. 5-2 1501637A

REC DOLBY P.C BOARD TD-5301(4ED)

LEFT

DOLBY NR

IND2

SW4

P.B DOLBY P.C BOARD TD-5301(4ED)

SRT P.C BOARD TD-5201

LOW NOISE ⟺ WIDE RANGE

VR1 10KB

REC LEVEL ADJ

VR2 10KB

P.B HEAD P4-202

TAPE SPEED

7 1/2 ⟺ 3 3/4

SW2

MONITOR

SOURCE ⟺ TAPE

SW1

REC HEAD R4-200

RL1

DI 1S2743

REC MODE

ERASE HEAD E4-260

L1 220μH(K)

L2 220μH(K)

IND1

REC

M1 VU

REC MODE P.C BOARD TE-5003

P1 FROM MECH

REC AMP P.C BOARD MY-5016 (3ED)

LINE IN

MIC

J2

J3

TR1,2 2SC458LG(C)

TR3,4 2SC458LG(C)

TR5 2SC945L (O)(P)

TR6,7 2SC945L(O)(P)

OT-204

BIAS ADJ

TM-80A 80P

LINE

OUT PUT

LINE OUT

PHONE

J10

VU SENS ADJ

T1 N16-5335

P.B AMP P.C BOARD MY-5017(2ED)

M2 VU

RIGHT

REC DOLBY P.C BOARD TD-5301(4ED)

P.B DOLBY P.C BOARD TD-5301(4ED)

SRT P.C BOARD TD-5201

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN Ω 1/4W(J)
ALL CAPACITORS IN μF 50WV(J)

GX-630D/DB

RELAY P.C BOARD TE-2002

SYS-CON P.C BOARD TE-2001

SERVO P.C BOARD MY-2036

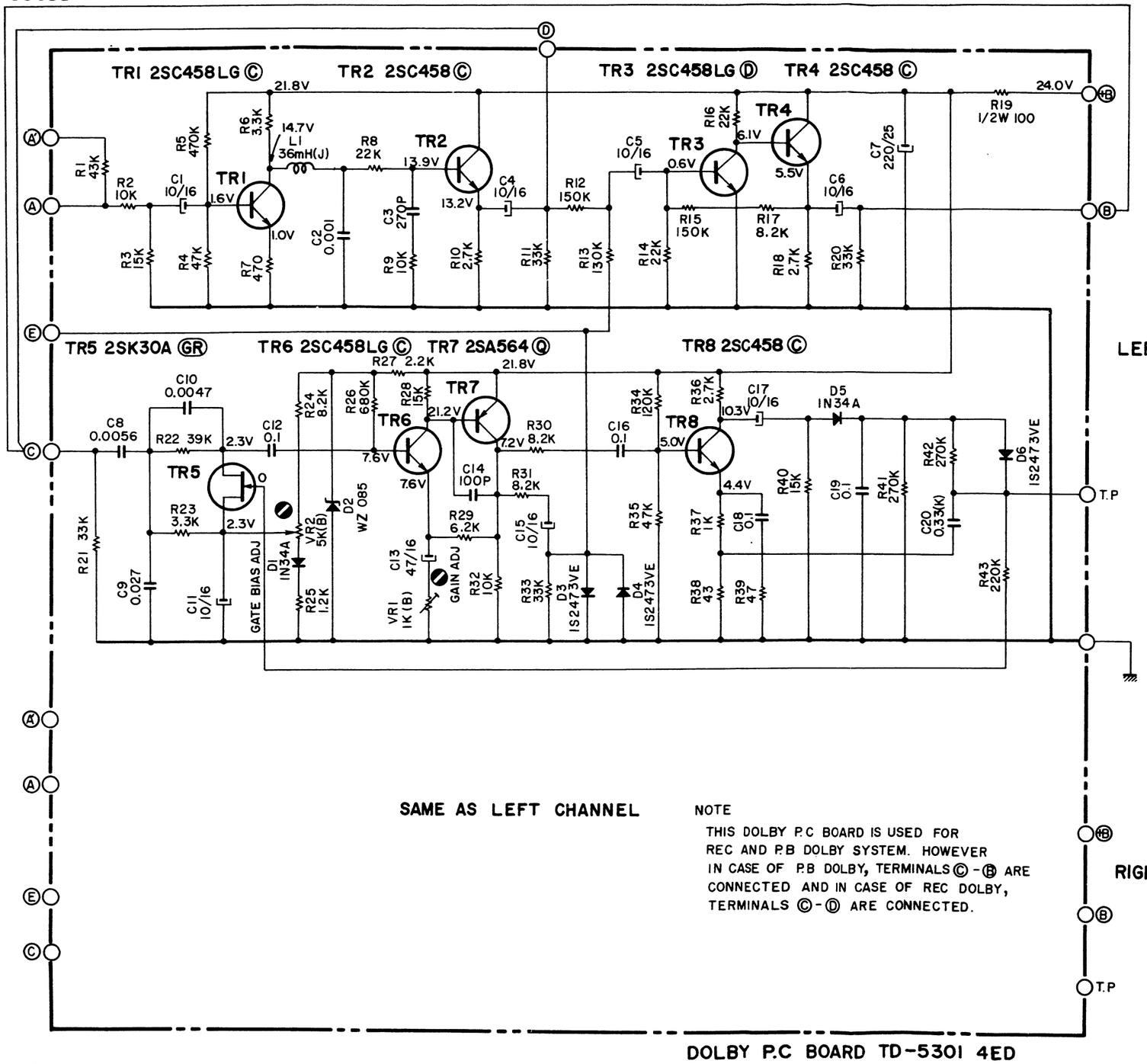
NOTE
1. UNLESS OTHERWISE SPECIFIED ALL RESISTORS IN Ω 1/4W(J) ALL CAPACITORS IN μF 50WV(J)
2. POWER TRANSFORMER BLOCK IS DIFFERENT ACCORDING TO AREA

GX-630D/DB SCHEMATIC DIAGRAM

NO. 5-3 1501638A

2C

GX-630DB



NOTE
THIS DOLBY P.C BOARD IS USED FOR REC AND P.B DOLBY SYSTEM. HOWEVER IN CASE OF P.B DOLBY, TERMINALS ©-Ⓑ ARE CONNECTED AND IN CASE OF REC DOLBY, TERMINALS ©-Ⓓ ARE CONNECTED.

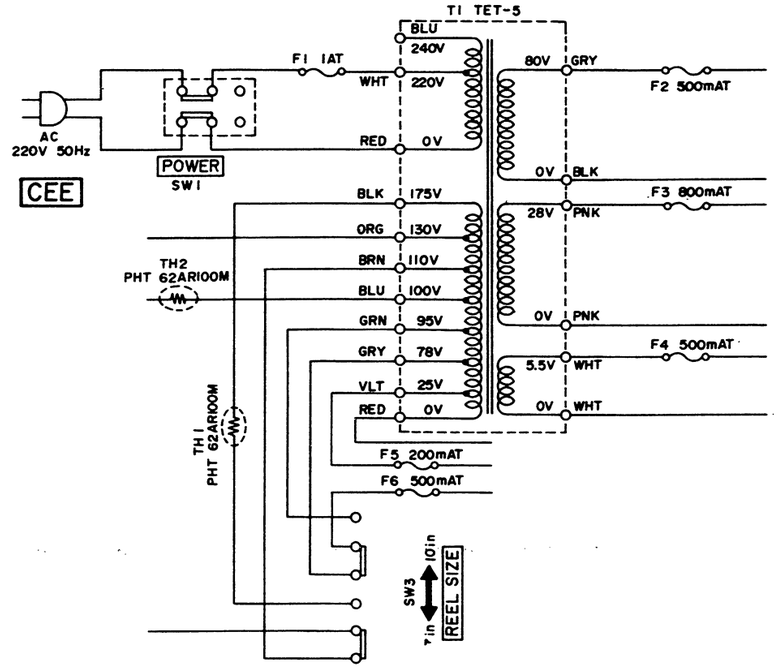
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN Ω 1/4W(J)
ALL CAPACITORS IN μF 50WV (J)

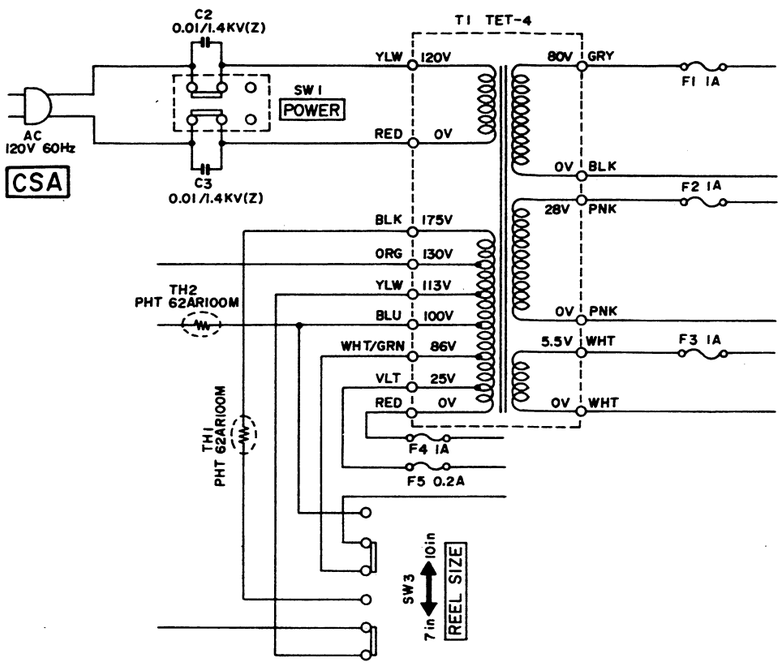
DOLBY P.C BOARD TD-5301 4ED

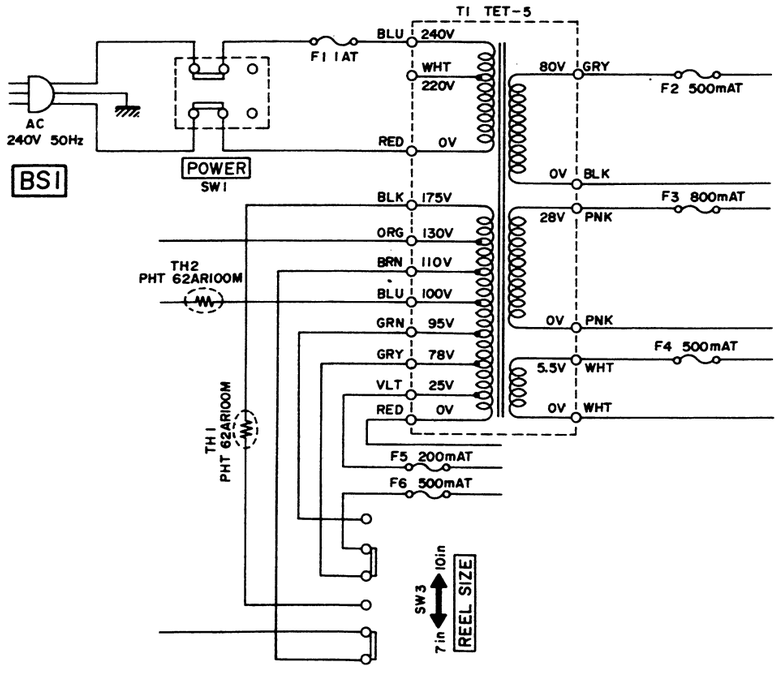
GX-630DB
SCHEMATIC DIAGRAM
NO.5-4 1501639A
2C

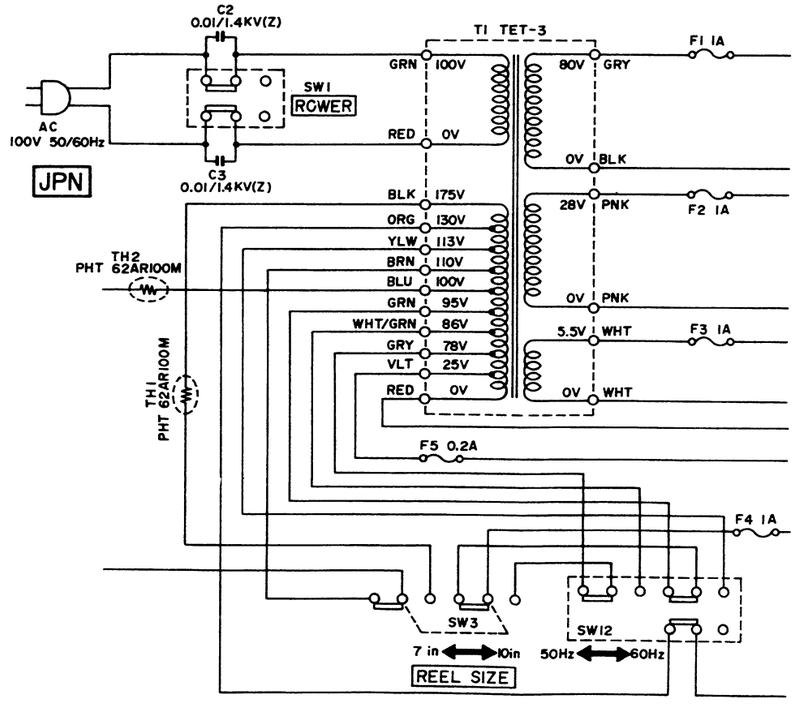
AKAI-00281 / Druck4

GX-630D/DB









GX-630D/DB SCHEMATIC DIAGRAM
NO. 5-5 1501640A